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V A E
H. A. S
MINES

20

COMPLIMENTS OF
David
BUREAU OF LAND
OFFICE

I have

read the
W. H. B.

Twenty-Third Annual Coal Report

OF THE

★ Illinois Bureau of

LABOR STATISTICS

~~1904~~ 1903/04

ALSO THE

Sixth Annual Report

OF THE

Illinois Free Employment Offices

FOR THE

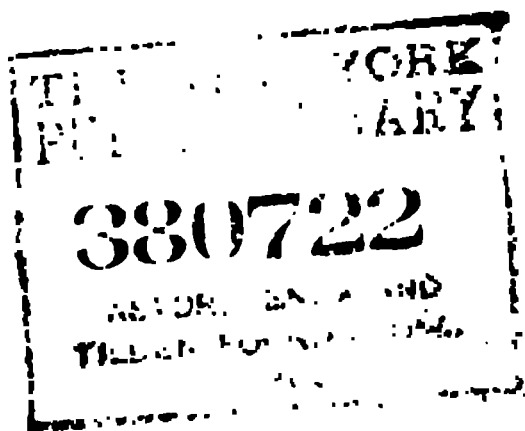
Year Ended Oct. 1, 1904.

DAVID ROSS, *Secretary*, Springfield.



SPRINGFIELD:
ILLINOIS STATE JOURNAL CO., STATE PRINTERS.

1905. G.W.



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1904.

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1904.

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STATE INSPECTORS OF MINES.

1904.

First District.

HECTOR McALLISTER, Streator.

Second District.

THOMAS HUDSON, Galva.

Third District.

JAMES TAYLOR, Peoria.

Fourth District.

THOMAS WEEKS, Bloomington.

Fifth District.

WALTON RUTLEDGE, Alton.

Sixth District.

JOHN DUNLOP, Centralia.

Seventh District.

EVAN D. JOHN, Carbondale.

COMPLIMENTS OF

David P.

BUREAU OF LAND
OFFICE

I have

read the report
of the
Mineral
Bureau

STATE OF ILLINOIS,
OFFICE OF THE BUREAU OF LABOR STATISTICS,
SPRINGFIELD, Jan. 1, 1905.

HON. RICHARD YATES, *Governor of Illinois*:

SIR—I have the honor, on behalf of the Board of Commissioners of Labor, to submit herewith the twenty-third annual report of the coal industry of the State for the year ended July 1, 1904, together with the sixth annual report of the Illinois Free Employment offices.

Very respectfully,

DAVID ROSS,

Secretary.

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less than the 525,000 miners employed in the United States; while the cost or value of the product at the mines there was nearly \$100,000,000 more. We select Great Britain for the purpose of comparison because it is the most advanced of European countries, and until quite recently was first in the list of manufacturing nations. Those who have had experience in both countries know that investments in coal properties yield very much larger profits there than here.

Aside from those who are pecuniarily interested in the coal business the chief concern of the humanitarian is the loss of lives incident to the operation of mines: Mortality from different causes seems to keep pace with the volume of production. The year covered by this report exceeds all others, the number killed being 157 or 2.87 per 1,000 employés. This is over one-half more than the fatal accident rate in the British mines. The number of non-fatal accidents was 507, an increase of 97 over the previous year.

According to the table of classified causes, one half of the fatal and non-fatal accidents resulted from falling coal and rock. It is impossible to determine the per cent of accidents listed under this head, due to the use of powder, although the majority of them accrue in the districts where the method of blasting off the solid prevails. Whatever the causes, whether they result from the lack of knowledge in the preparation of blasts, the drilling of dead holes, the adulteration of explosives, the accumulation of dust on the roadways, blasting off the solid or the indifference or carelessness of men accustomed to the dangers of the miners' occupation, the death rate particularly is entirely too high and some other measures should be tried to reduce it. It was hoped the law passed by the last General Assembly, limiting the quantity of powder to be used in any one blast, would diminish the fatalities heretofore due to that source. The law has been in force nearly two years and the number of fatal accidents, instead of diminishing, has, in fact, increased. Either its requirements have not been observed by the miners or the facts are strangely out of joint with our expectations. Of the several propositions that have been offered, two are worthy of some consideration. The first, proposed by representatives of the coal operators, is that the present run of mine system be abolished and the miners required to under-cut or shear the coal. To require that all coal be undermined would, to a very great extent, dispense with the necessity for powder and naturally avoid the accidents due to the use of explosives; and that regardless of whether the present system of paying for mining coal is to be continued or not. The objections urged to this plan are two-fold: First, that the mine run system of this State is provided for by contract presumably satisfactory to both interests and which, under its terms, will continue to operate until the 31st of March, 1906. and second, the low rate of mining fixed by the same contract, was made possible in consequence of the general and recognized practice of blasting off the solid. If the interest of the mine operators in the cause of reducing accidents, is strong enough and sincere enough to warrant a return to the methods of the pick miners, and their employment favored in preference to that of the coal "butcher," then they must be

prepared to concede a substantial advance in the mining rate fixed for the thicker seams. On the other hand the miners, or many of them, think the number of accidents would be materially lessened through the enactment of a law requiring the employment, at the company's expense, of men to be known as shot firers, whose duties would be, after the miners had quit work for the day, to visit each working place and discharge such shots as in their judgment should be fired. It is obvious that under this plan, whatever explosions might occur, only the lives of the firers would be exposed and imperiled and their number would not exceed four in the larger class of mines. So terrific has been the force developed from blown-out shots that some of our most competent and experienced inspectors assert that under certain circumstances they would not be surprised to learn at any time of scores of men being killed as the result of an improper blast. Another evident point in favor of this plan is that it would tend to educate men in the use of explosives and in the proper preparation of shots. The miner who drilled a hole dead or located it in such a manner that the powder had no possible chance of doing the work expected of it, would be punished in the most effective way, by having no coal to load the following morning. He could profitably put in the day learning the forgotten art of pick mining or change the location of the shots. The law, if one is passed, should be explicit in delegating to the shot firer the discretion and authority of firing or not, according as his judgment suggested the propriety or safety of doing so. The anticipated objection to this plan on the part of the employers, would be that of requiring them to pay for that class of labor. It is claimed by those who favor this method that financially the operators would be the gainers, that there is from twenty to thirty minutes lost every day, by miners and company men, on account of the present general practice of shooting at or about quitting time. If this contention can be sustained the saving of nearly half an hour's time during every working day would more than compensate the operators for the additional expense incurred on account of the employment of shot firers. While the employment of shot firers would no doubt materially reduce the number of fatalities, resulting from explosions, the precaution of the miners, where coal is blasted off the solid, should go further and require the shot firers to prepare as well as discharge the blast. By thus divorcing the workmen from all connection with explosives, the cause of accidents from that source would be entirely removed, while it would reduce to a minimum the dangers to which the shot firers are necessarily exposed. The immediate necessity for doing something to reduce or prevent the occurrence of accidents is everywhere apparent and it is the result, more than the medium through which it is hoped to reach it, that is most desired.

The aggregates and averages of all the leading particulars reported by the seven State inspectors, are shown in the following summary for the year:

SUMMARY FOR THE YEAR ENDED JUNE 30, 1904.

Number of counties producing coal.....	54
Number of mines and openings of all kinds.....	932
New mines or old mines re-opened during the year.....	106
Mines closed or abandoned since last report.....	109
Total output of all mines in tons of 2,000 pounds.....	37,077,897
Number of shipping or commercial mines.....	380
Total output of shipping mines, tons.....	35,779,517
Number of mines in local trade only.....	552
Output of local mines, tons.....	1,298,380
Total tons of mine run coal.....	10,627,904
Total tons of lump coal.....	16,888,010
Total tons of egg coal.....	1,014,700
Total tons of nut coal.....	1,602,383
Total tons of pea coal.....	5,751,570
Total tons of slack coal.....	1,193,330
Total tons shipped.....	31,778,280
Tons supplied to locomotives at the mines.....	1,223,000
Tons sold to local trade.....	2,521,612
Tons consumed (or wasted) at the plant.....	1,554,986
Average days of active operation for shipping mines.....	213
Average days of active operation for all mines.....	197
Average value per ton all grades at the mines.....	\$1.10
Average value per ton of mine run coal at the mines.....	\$1.08
Average value per ton of lump coal at the mines.....	\$1.37
Average value per ton of egg coal at the mine.....	\$1.30
Average value per ton of nut coal at the mine.....	\$1.0494
Average value per ton of pea or screenings coal at the mines.....	\$0.5613
Average value per ton of slack coal at the mine.....	\$0.3336
Aggregate home value of total product.....	\$40,774,223
Number of mines in which mining machines are used.....	66
Number of mining machines in use.....	600
Number of tons undercut by machines.....	7,400,343
Number of tons mined by hand.....	29,677,534
Average number of miners employed during the year.....	37,981
Average number of other employés underground.....	9,812
Average number of boys employed underground.....	1,582
Average number of employés above ground.....	5,413
Total employés.....	54,774
Number of men at work under ground.....	49,361
Number at work on surface.....	5,413
Average price paid per gross ton for hand mining, shipping mines.....	\$0.5083
Average price paid per gross ton for machine mining.....	\$0.4639
Number of kegs of powder used for blasting coal.....	923,418
Number of kegs of powder used for other purposes..	3,717
Number of men accidentally killed.....	157
Number killed inside of the mines.....	148
Number killed outside of the mines.....	9
Number of wives made widows.....	81
Number of children left fatherless.....	231
Number of men injured so as to lose a month or more time.....	50
Number of gross tons mined to each life lost.....	236,161
Number of employés to each life lost.....	341
Number of deaths per 1,000 employed.....	2.81
Number of gross tons mined to each man injured.....	73,132
Number of employés to each man injured.....	103

This year records 54 counties producing coal; there were 53 counties last year. Two counties, Edgar and Franklin, are added to the list this year, while Wabash county reports no coal mined during the year.

The number of mines is 932, one less than last year. The most noticeable change, concerning the number of mines, is the increase in the number of shipping mines. The number in this class for the year is 380; last year there were 353, giving an increase of 27 mines, or 7.93 per cent. Of the local mines the decrease in the number is 28 from last year.

The number of tons, all grades, produced, was 37,077,897, an increase of 2,122,497 tons, or 6.07 per cent over last year.

The total number of employes was 54,774, being an increase of 4,960, or 9.96 per cent.

The average number of days for the shipping mines was 213, which is nine days less than last year.

CLASSIFICATION OF MINES.

In the table following is presented the number of mines, men and tons, by districts and for the State, also a division giving the same information for shipping and local mines:

TABLE 1—*Mines, Men and Tons, Shipping and Local Mines, by Districts, 1904.*

DISTRICT.	TOTAL.			SHIPPING.			LOCAL.		
	Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.
First	88	8,038	3,450,315	41	7,698	3,322,268	47	340	128,047
Second	171	7,362	3,322,490	28	6,508	3,036,056	143	854	286,434
Third	238	4,808	3,058,414	55	3,849	2,707,067	183	959	351,347
Fourth.....	96	7,293	5,142,786	46	6,787	4,901,660	50	506	241,126
Fifth	102	9,541	7,280,287	53	9,261	7,177,268	49	280	103,019
Sixth.....	117	9,665	8,634,726	84	9,433	8,530,028	33	232	104,698
Seventh.....	120	8,067	6,188,879	73	7,848	6,105,170	47	219	83,709
The State.	932	54,774	37,077,897	380	51,384	35,779,517	552	3,390	1,298,380

The foregoing is supplemented by the following percentages of each class:

TABLE 2—*Percentages of Mines, Men and Tons, all Mines, and of Shipping and Local Mines, 1904.*

DISTRICT.	PERCENTAGES.								
	ALL MINES.			SHIPPING.			LOCAL.		
	Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.
First	9.46	14.75	9.33	46.59	95.77	96.20	53.41	4.23	3.80
Second	18.39	13.50	8.98	16.37	88.40	91.38	83.63	11.60	8.62
Third	25.59	8.82	8.26	23.11	80.05	88.51	76.89	19.95	11.49
Fourth.....	10.32	13.38	13.90	47.92	93.06	95.31	52.08	6.94	4.69
Fifth.....	10.97	17.50	19.67	51.96	97.07	98.58	48.04	2.93	1.42
Sixth.....	12.58	17.73	23.34	71.79	97.60	98.79	28.21	2.40	1.21
Seventh	12.69	14.32	16.52	60.83	97.29	98.65	39.17	2.71	1.35
The State.....	100.00	100.00	100.00	40.77	93.81	96.50	59.23	6.19	3.50

Very few changes will be found in these percentages from last year; however, the number of shipping mines has increased 3 per cent, while the number of local mines has decreased proportionately.

The shipping mines show 40.77 per cent of the mines, 93.81 per cent of the men and 96.50 per cent of the tonnage. The local mines represent 59.23 per cent of the mines, 6.19 per cent of the men and 3.50 per cent of the tons.

A comparative table of mines, men and tons for the years 1903 and 1904, showing by districts the increase and decrease in each, follows:

TABLE 3—*Mines, Men and Tons, for the years 1903 and 1904, with the Increase or Decrease by Districts.*

DISTRICT.	TOTALS—1903.			TOTALS—1904.			INCREASE (+) OR DECREASE (—) FOR YR. 1904		
	Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines	Men.	Tons.
First	74	7,717	3,748,651	88	8,038	3,450,315	+14	+ 321	—298,336
Second	181	6,860	3,245,781	171	7,362	3,322,490	—10	+ 502	+ 76,709
Third	243	4,363	2,708,350	238	4,808	3,058,414	— 5	+ 445	+350,064
Fourth	87	6,771	4,772,284	96	7,293	5,142,786	+ 9	+ 522	+370,502
Fifth.....	101	8,393	7,070,903	102	9,541	7,280,287	+ 1	+ 148	+209,384
Sixth.....	113	8,354	7,734,831	117	9,665	8,634,726	+ 4	+1,311	+899,895
Seventh.....	134	7,356	5,674,600	120	8,067	6,188,879	—14	+ 711	+514,279
The State...	933	49,814	34,955,400	932	54,774	37,077,897	—1	+4,960	+2,122,497

The first, fourth, fifth and sixth districts show an increase in the number of mines, while the second, third and seventh show a decrease, the net decrease being one mine.

All the districts show an increase in the number of men employed, the net increase being 4,960 men.

The first district is alone in the decrease of the output of coal; all the other districts show an increase, the net increase being 2,122,497 tons. The sixth and seventh districts account for 66.63 per cent of this increase.

The total number of mines, men and tons, with the sub-division of shipping and local mines for 12 years, is presented in the following table:

TABLE 4—*Mines, Men and Tons, Shipping and Local Mines, for Twelve Years.*

YEAR.	TOTAL.			SHIPPING.			LOCAL		
	Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.
1893.....	788	35,390	19,949,564	310	28,737	19,257,682	478	6,653	691,882
1894.....	836	38,477	17,113,576	319	31,243	16,106,613	517	7,234	1,006,963
1895.....	874	38,630	17,735,864	319	31,174	16,578,890	555	7,456	1,156,974
1896.....	901	37,032	19,786,626	330	28,185	18,263,056	571	8,847	1,523,570
1897.....	853	33,788	20,072,758	310	31,322	19,386,573	543	2,466	686,185
1898.....	881	35,026	18,599,299	329	32,297	17,655,561	552	2,729	943,738
1899.....	889	36,991	23,434,445	323	34,307	22,531,356	566	2,684	903,089
1900.....	920	39,384	25,153,929	323	36,298	24,056,996	597	3,086	1,096,933
1901.....	915	44,143	26,635,319	331	40,926	25,526,816	584	3,217	1,108,503
1902.....	915	46,005	30,021,300	332	42,807	28,824,750	583	3,198	1,196,550
1903.....	933	49,814	34,955,400	353	46,494	33,676,537	580	3,320	1,278,863
1904.....	932	54,774	37,077,897	380	51,384	35,779,517	552	3,390	1,298,380

This presents the activity of all the mines in the State, for the period covered, and also for the two classes of mines, shipping and local. For this year the shipping mines show an average of 135 men and 94,157 tons to each mine, while the local mines disclose an average of only six men and 2,352 tons to each mine.

To further set forth the relative efficiency of the two classes of mines for the same period, the totals of each class has been reduced to percentages, as presented in the following table:

TABLE 5.—*Mines, Men and Tons, with Percentages of Shipping and Local Mines for Twelve Years.*

YEARS.	TOTALS—ALL MINES.			PERCENTAGES.					
				SHIPPING.			LOCAL.		
	Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.
1893.....	788	35,390	19,949,564	39.34	81.20	96.53	60.66	18.80	3.47
1894.....	836	38,477	17,113,576	38.16	81.20	94.10	61.84	18.80	5.90
1895.....	874	38,630	17,735,864	36.50	80.70	93.48	63.50	19.30	6.52
1896.....	901	37,032	19,786,626	36.62	76.11	96.26	63.33	23.89	3.74
1897.....	853	33,788	20,072,758	36.38	92.72	96.53	63.62	7.28	3.47
1898.....	881	35,026	18,599,299	37.49	92.30	94.93	62.51	7.70	5.07
1899.....	889	36,991	23,434,445	36.33	92.74	96.15	63.67	7.26	3.85
1900.....	920	39,384	25,153,929	35.11	92.16	95.64	64.89	7.84	4.36
1901.....	915	44,143	26,633,319	36.17	92.71	95.84	63.83	7.29	4.16
1902.....	915	46,005	30,021,300	36.28	93.05	96.01	63.72	6.95	3.99
1903.....	933	49,814	34,953,400	37.83	93.34	96.34	62.17	6.66	3.66
1904.....	932	54,774	37,077,897	40.77	93.81	96.50	59.23	6.19	3.50

The shipping mines show the largest percentages of mines and men reached during the 12 years, also the largest percentage of tons during the same period, excepting the years 1893 and 1897. The tonnage of the mines in the several districts, contributed by the shipping mines, is shown in the following table reduced to percentages:

TABLE 6.—*Percentage of the Tonnage of Shipping Mines of each District and of the State for Twelve Years.*

YEAR.	First.	Second.	Third.	Fourth.	Fifth.	Sixth.	Seventh.	The State.
1893	97.2	88.8	93.1	98.9	98.6	.....	.....	96.53
1894	93.8	83.0	91.7	98.8	93.7	.....	.....	94.10
1895	93.7	86.8	90.6	99.0	91.3	.....	.....	93.48
1896	96.2	92.6	78.9	95.1	99.2	98.7	96.6	96.26
1897	97.29	92.99	78.91	95.20	99.32	98.55	97.82	96.53
1898	91.35	88.61	78.59	93.69	99.12	98.48	98.11	94.93
1899	94.73	92.53	79.93	95.43	98.81	98.57	98.52	96.15
1900	95.81	89.14	87.18	95.47	98.39	98.84	96.47	95.64
1901	96.68	89.38	85.98	94.65	98.65	98.64	97.63	95.84
1902	94.93	91.89	85.54	95.36	98.82	98.73	98.37	96.01
1903	94.78	92.16	85.65	95.83	98.86	98.98	95.96	96.34
1904	96.20	91.38	88.51	95.31	98.58	98.79	98.65	96.50

The fifth, sixth and seventh districts show the largest percentages, as the output of shipping mines for the past nine years, while for the State the product of these mines will average 96 per cent of the total output for the 12 years.

The foregoing classification of mines is more specifically shown in the grouping of all the mines by districts based on their tonnage for the year, as follows:

TABLE 7—*Grouping of Mines by Tonnage and Districts—1904.*

DISTRICT.	TONNAGE OF MINES PRODUCING—											
	Under 1,000.		1,000 and under 10,000.		10,000 and under 50,000.		50,000 and under 100,000.		100,000 and under 200,000.		200,000 and over.	
	○ Z	Tons.	○ Z	Tons.	○ Z	Tons.	○ Z	Tons.	○ Z	Tons.	○ Z	Tons.
First.....	23	10,505	30	101,898	10	203,165	9	697,326	15	2,154,096	1	283,325
Second.....	79	31,723	68	220,038	10	228,855	2	127,143	5	689,940	7	2,024,791
Third.....	110	44,794	73	239,504	37	863,459	9	622,096	8	1,066,616	1	201,945
Fourth.....	17	8,289	34	106,143	20	465,714	5	368,103	11	1,398,312	9	2,794,245
Fifth.....	34	14,741	17	55,199	7	206,197	7	576,046	28	3,955,254	9	2,472,850
Sixth.....	11	5,777	23	93,613	34	1,024,787	22	1,640,195	15	2,218,197	12	3,652,157
Seventh.....	27	10,588	30	95,647	22	610,483	18	1,169,642	16	2,271,560	7	2,030,959
The State..	301	126,397	275	934,042	140	2,602,660	72	5,200,551	98	13,763,975	46	13,460,272

This shows the mines of the State divided into six groups, according to the tons of coal produced. Reducing these groups to two, it is found that the smaller mines, or those producing less than 50,000 tons, number 716, or 76.82 per cent of the total number, and furnished 4,663,099 tons, or 12.58 per cent of the coal, while the large mines, or those yielding 50,000 tons or over, are only 216, or 23.18 per cent, but produced 32,414,798 tons, or 87.42 per cent of the entire output.

Continuing the comparison a table of the two groups referred to is presented, showing the percentages of mines and tons in each group by districts:

TABLE 8—Percentages of Mines and Tons in Two Specified Classes by Districts.

DISTRICT.	MINES PRODUCING—			
	LESS THAN 50,000 TONS.		OVER 50,000 TONS.	
	Mines.	Tons.	Mines.	Tons.
First.....	71.59	9.15	28.41	90.85
Second	91.81	14.47	8.29	85.53
Third.....	92.44	38.18	7.56	61.82
Fourth.....	73.96	11.32	26.04	88.68
Fifth.....	56.86	3.79	43.14	96.21
Sixth	58.12	13.02	41.88	86.98
Seventh	65.83	11.58	34.17	88.42
The State	76.82	12.58	23.18	87.42

The second and third districts show much the largest percentage of mines whose output is less than 50,000 tons, the first and fourth come next, while the fifth, sixth and seventh districts show considerable less than the four first named.

Referring to the tonnage of these mines, the third district presents by far the largest per cent of tonnage, while the fifth and first districts decidedly the smallest; the other four districts show nearly the same percentage of tonnage and correspond closely to that shown for the State.

Observing the percentages of the larger mines, it will be seen that the second and third districts show a very small per cent of the mines producing over 50,000 tons; the fifth district shows the largest per cent of mines in this class, also the largest per cent of tonnage. However, all the districts show the importance of the comparatively small number of mines as producers of the large percentages of coal.

This subject matter is further set forth in the following table:

TABLE 9—Classification of Mines as to Tonnage, with Percentages of Mines and Tons, 1904.

MINES PRODUCING.	Number of mines.	Tonnage.	PERCENTAGE OF	
			Mines.	Tons.
Less than 1,000 tons.....	301	126,397	32.30	3.4
One thousand and less than 10,000 tons.....	275	934,042	29.50	2.5
Ten thousand and less than 50,000 tons.....	140	3,602,660	15.02	9.1
Fifty thousand and less than 100,000 tons	72	5,200,551	7.73	14.0
One hundred thousand and less than 200,000 tons...	98	13,753,975	10.51	37.0
Two hundred thousand tons and over	46	13,460,272	4.94	36.1

Here it will be seen that the mines with an output of less than 10,000 tons number 576 or 61.80 per cent of the whole number. These same mines produced 1,060,439 tons or only 2.86 per cent of the total output.

The mines producing 100,000 tons and over number 144 or 15.45 per cent of all mines, but produce 27,214,247 tons or 73.39 per cent of the entire tonnage.

The classification of the mines of the State, as indicated in the foregoing groupings, has been shown in these reports from year to year, and is continued as shown in the following table:

TABLE 10—*Number of Mines in Specified Groups of Tonnage for a Series of Twenty-two Years.*

YEAR.	NUMBER OF MINES PRODUCING—						Total mines.
	Under 1,000 tons.	1,000 and under 10 000 tons.	10,000 and under 50,000 tons.	50,000 and under 100,000 tons.	100,000 and under 200,000 tons.	200,000 tons and over.	
1883	209	233	133	39	10	15	639
1884	262	273	148	38	16	4	741
1885	286	290	143	40	13	1	778
1886	216	280	135	44	11	3	789
1887	320	278	141	42	18	2	801
1888	327	272	151	47	20	5	822
1889	321	316	139	55	20	3	854
1890	398	301	153	54	24	4	936
1891	403	260	161	52	37	6	918
1892	332	239	151	65	46	6	839
1893	282	232	140	75	47	12	788
1894	312	252	161	61	44	6	836
1895	319	276	145	61	45	9	855
1896	330	280	128	63	45	16	862
1897	346	250	120	79	41	17	853
1898	351	244	151	86	42	7	881
1899	346	261	123	78	56	25	889
1900	340	295	123	70	65	27	920
1901	313	308	124	79	58	33	913
1902	314	263	152	76	72	38	915
1903	313	293	120	75	87	45	933
1904	301	275	140	72	98	46	932

'In this grouping no material change is shown in the number of mines from year to year, as classed in the first three columns; the averages for the years indicated are 320, 271 and 140 respectively.

The number of mines appearing in the last three columns, while varying slightly during the series of years, show a decided increase, especially those representing the large tonnage.

However, as heretofore indicated, the smaller mines maintain their number as producers of coal.

For the purpose of comparing more fully the figures of the preceding exhibit, the following table of percentages is presented:

TABLE 11—*Percentages of Mines in Specified Grouping of Tonnage for a Series of Twenty-two Years.*

YEAR.	Total Mines.	PERCENTAGES OF MINES PRODUCING—					
		Under 1,000 tons.	1,000 and under 10,000 tons.	10,000 and under 50,000 tons.	50,000 and under 100,000 tons.	100,000 and under 200,000 tons.	200,000 tons and over.
1883.....	639	32.71	36.47	20.81	6.10	1.56	2.35
1884.....	741	35.36	36.84	19.97	5.13	2.16	.54
1885.....	778	36.76	37.27	18.38	5.14	2.32	.13
1886.....	789	40.05	35.49	17.11	5.58	1.39	.38
1887.....	801	39.95	34.71	17.60	5.24	2.25	.25
1888.....	822	39.79	33.09	18.37	5.71	2.43	.61
1889.....	854	37.59	37.00	16.28	6.44	2.34	.35
1890.....	936	42.52	32.16	16.56	5.77	2.56	.43
1891.....	918	43.79	28.32	17.54	5.67	4.03	.65
1892.....	839	39.69	29.44	17.76	7.03	4.89	1.19
1893.....	788	35.91	29.44	16.24	10.92	5.71	1.78
1894.....	836	37.08	29.07	19.62	8.25	5.26	.72
1895.....	859	36.43	33.29	16.63	7.33	5.25	1.05
1896.....	874	38.90	30.66	14.88	8.35	5.61	1.60
1897.....	853	40.56	29.31	14.07	9.26	4.81	1.99
1898.....	881	39.84	27.70	17.14	9.76	4.77	.79
1899.....	889	38.92	29.36	13.84	8.66	6.41	2.81
1900.....	920	36.96	32.07	13.37	7.61	7.06	2.93
1901.....	915	34.21	33.66	13.55	8.63	6.34	3.61
1902.....	915	34.32	28.74	16.61	8.31	7.87	4.15
1903.....	933	33.55	31.40	12.86	8.04	9.33	4.82
1904.....	932	32.30	29.50	15.02	7.73	10.51	4.94

The tonnage of the mines as classified is shown for 13 years in the following table:

TABLE 12—*Grouping of Mines by Tonnage for a Series of Thirteen Years.*

YEAR.	TONNAGE OF MINES PRODUCING—					
	Under 1,000 tons.	1,000 and under 10,000.	10,000 and under 50,000.	50,000 and under 100,000.	100,000 and under 200,000.	200,000 and over.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
1892.....	147,777	1,058,078	4,134,259	4,293,472	5,855,091	2,373,599
1893.....	121,636	726,199	3,132,499	6,179,487	6,291,965	3,497,778
1894.....	137,507	702,623	4,022,545	4,742,257	6,035,094	1,473,550
1895.....	151,430	866,019	3,609,918	4,416,969	6,346,937	2,344,591
1896.....	141,690	807,148	3,265,822	5,049,694	6,557,545	3,962,435
1897.....	150,445	773,526	3,162,713	5,693,193	5,778,374	4,514,507
1898.....	161,622	692,149	3,785,962	6,351,513	5,898,596	1,709,457
1899.....	137,582	790,948	2,877,117	5,618,924	7,443,023	6,566,851
1900.....	154,318	969,424	3,255,570	5,009,326	8,995,963	6,769,328
1901.....	227,419	838,989	3,393,827	5,795,953	8,008,897	8,370,234
1902.....	161,058	763,597	3,694,890	5,376,350	9,923,538	10,101,867
1903.....	126,678	871,342	3,396,343	5,445,195	12,387,437	12,728,405
1904.....	126,397	934,042	3,602,660	5,200,551	13,753,975	13,460,272

Here it is shown that a close uniformity in tonnage is maintained in most of the groupings; however, a decided increase is disclosed in the output of the two groups, having a yield of 100,000 tons and over.

A better comparison of the production of coal in the different groupings for the 15 years may be found in the following table of percentages:

TABLE 13—Percentages of Tons Produced by Specified Grouping of Tonage for Thirteen Years.

YEARS.	Total Tons.	PERCENTAGE OF TONS PRODUCED BY MINES PRODUCING—					
		Under 1,000 tons.	1,000 and under 10,000 tons.	10,000 and under 50,000 tons.	50,000 and under 100,000 tons.	100,000 and under 200,000 tons.	200,000 tons and over.
1892.....	17,862,276	.82	5.92	23.15	24.04	32.78	13.29
1893.....	19,949,564	.61	3.64	15.70	30.98	31.54	17.53
1894.....	17,113,576	.80	4.11	23.50	27.71	35.26	8.61
1895.....	17,735,864	.85	4.88	20.35	24.91	35.79	13.22
1896.....	19,784,334	.72	4.08	16.51	25.52	33.14	20.03
1897.....	20,072,758	.75	3.85	15.75	28.37	28.79	22.49
1898.....	18,599,299	.87	3.72	20.36	34.15	31.71	9.19
1899.....	23,434,445	.59	3.98	12.28	23.97	31.76	28.02
1900.....	25,153,929	.61	3.86	12.94	19.92	35.76	26.91
1901.....	26,635,319	.85	3.15	12.74	21.76	30.07	31.43
1902.....	30,021,300	.54	2.54	12.31	17.90	33.06	33.65
1903.....	34,955,400	.36	2.49	9.72	15.58	35.44	36.41
1904.....	37,077,897	.34	2.52	9.72	14.03	37.09	36.30

COLLIERIES OF LARGEST OUTPUT.

The large collieries of the State have been given for a number of years in these reports. One list included all the mines having an output of 100,000 tons and less than 200,000: the other, all mines with an output of 200,000 tons and over. These tables for the year follow:

TABLE 14—Mines from which more than 100,000 Tons and less than 200,000 Tons of Coal have been delivered during the year 1904

Rank.	COMPANIES.	Location.	Tons.
1	Southern Illinois Coal Mining & Washing Co. No. 3.	Marion	198,794
2	Capitol Coöperative Coal Co.....	Springfield	197,344
3	Consolidated Coal Co. No. 8.....	Mount Olive	195,133
4	Empire Coal Co. No. 3	Gilchrist	191,900
5	Kerns-Donneiwald Coal Co. No. 1	Worden	190,015
6	LaSalle County Carbon Coal Co. No. 1	LaSalle	189,789
7	Christian County Coal Co.....	Taylorville	188,113
8	Springfield Coal Mining Co. No. 5	Springfield	186,439

Table 14—Continued.

COMPANIES.	Location.	Tons.
, Wilmington & Vermilion Coal Co. No. 2....	South Wilmington.....	185,245
Walnut Coal Co.....	Pinckneyville.....	184,769
Coal Co.....	Girard.....	183,312
uth Coal Co. No. 1.....	Brereton.....	183,051
l Coal Co. No. 1.....	Sandoval.....	182,543
ddy Coal & Iron Co., Harrison.....	Murphysboro.....	182,101
Coal Co.....	Sorento.....	176,116
dated Coal Co.....	Breese.....	174,807
dated Coal Co. No. 7.....	Mount Olive.....	174,273
Coal & Mining Co., Royal.....	Belleville.....	172,442
dated Coal Co. No. 7.....	Staunton.....	171,753
Coal & Ice Co.....	New Baden.....	170,469
Coal Co., Acme.....	Streator.....	166,260
County Carbon Coal Co., Union.....	LaSalle.....	166,085
rginia Coal Co. No. 1.....	Lake Creek.....	165,710
County Carbon Coal Co., LaSalle.....	LaSalle.....	163,078
ood Coal Co., Black Hawk.....	Peoria.....	162,749
ield Coal Mining Co. No. 4.....	Springfield.....	162,193
dge Mining Co.....	Greenridge.....	161,834
de Coal Co.....	Springfield.....	160,536
ield Coöperative Coal Co.....	Springfield.....	160,000
Coal & Ice Co., No. 1.....	Belleville.....	159,771
, Wilmington & Vermilion Coal Co. No. 2....	Streator.....	159,562
n Illinois Coal Mining & Washing Co. No. 2..	Marion.....	157,305
lle Coal Co. No. 5.....	Braceville.....	156,799
ro Coal Co.....	Hillsboro.....	156,498
l Coal Mining Co., Penwell.....	Pana.....	156,267
County Carbon Coal Co., Rockwell.....	LaSalle.....	153,456
alley Mining Co. No. 2.....	Sherrard.....	151,203
nd Coal Co.....	Springfield.....	150,272
n County Coal Co.....	Bloomington.....	150,000
n Coal Co.....	Trenton.....	149,816
dated Coal Co., Heinz Bluff ...	Collinsville.....	149,101
n Anthracite Coal & Coke Co., Eden.....	Sparta.....	148,000
o-Herrin Coal Co.....	Herrin.....	147,571
iew Coal Co.....	Greenvew.....	145,772
ield Coal Mining Co. No. 1.....	Riverton.....	144,135
n Coal Co.....	Athens.....	143,703

Table 14—Continued.

Rank.	COMPANIES.	Location.	Tons.
47	Viriden Coal Co.....	Viriden.....	141,642
48	Davenport Coal Co., Ledford	Ledford	139,071
49	Montgomery Coal Co	Paisley	136,863
50	Taylor & Cavanaugh No. 5.....	Carbon Hill	136,166
51	Jones & Adams Co. No. 2.....	Catlin	135,671
52	Springfield Coal Mining Co. No. 3	Springfield	132,435
53	Jefferson Coal Co.....	Springfield	131,062
54	Consolidated Coal Co., Abbey No. 3	Collinsville.....	131,092
55	Chicago & Big Muddy Coal & Coke Co. No. 1	Marion	128,429
56	Johnson City & Big Muddy Coal Mining Co	Lake Creek.....	128,399
57	Williamson County Coal Co.....	Lake Creek.....	128,331
58	Big Four Wilmington Coal Co. No. 3.....	Coal City.....	128,298
59	Sangamon Coal Co	Springfield	126,005
60	Carterville Coal Co., Burr	Carterville	125,223
61	Clark Coal & Coke Co., A	Peoria	122,230
62	Star Coal Co. No. 2	Kangley.....	122,189
63	Madison Coal Co. No. 3	Edwardsville	121,135
64	Wenona Coal Co. No. 1.....	Wenona	121,105
65	Auburn & Alton Coal Co.....	Auburn	121,099
66	Cantrall Coöperative Coal Co.....	Cantrall	116,611
67	Walnut-Hill Coal Co., Avery	Belleville	115,457
68	Spring Valley Coal Co. No. 4	Seatonville	115,179
69	Roanoke Coal Mining Co. No. 1.....	Roanoke.....	115,129
70	Kolb Coal Co. No. 1.....	Mascoutah.....	114,449
71	Newbent Coal Co. No. 2.....	Pana	113,977
72	Manufacturers' Fuel Co. No. 1.....	Duquoin.....	113,449
73	Oglesby Coal Co., Oglesby	Oglesby	113,016
74	New Ohio Washed Coal Co. No. 1.....	Carterville.....	112,736
75	Alden Coal Co. No. 1.....	Wanlock.....	110,554
76	Pana Coal Co. No. 1	Pana	110,513
77	Manufacturers' Fuel Co., Springside.....	Pana	110,506
78	Horn's Colliery Co	Duquoin	110,124
79	Carlinville Coal Co	Carlinville.....	109,654
80	Wilmington & Springfield Coal Co	Springfield	109,2
81	Superior Coal & Mining Co. No. 1.....	Belleville	109,11
82	Moweaqua Coal Mining & Manufacturing Co. No. 1..	Moweaqua	109,11
83	Wabash Coal Co. No. 1.....	Dawson.....	107,41
84	Citizens' Coal Mining Co., East Shaft	Lincoln	106,81

Table 14—Concluded.

COMPANIES.	Location.	Tons.
ding Coal Co. No. 1.....	Spaulding	105,678
iessen & Hegeler Zinc Co	LaSalle	105,557
field Mining & Power Co.....	Litchfield.....	105,114
go Virden Coal Co. No. 3	Chatham	104,881
Emerson Hakes No. 2.....	Rutland	104,814
Coal Mining Co.....	Norris	104,761
ington Star Mining Co. No. 6.....	Coal City.....	103,812
ns' Coal Mining Co., B.....	Springfield	103,353
omy Coal Mining Co., Economy.....	Danville	103,068
Bros., No. 3.....	Peoria	103,049
on Coal Co. No. 7.....	Belleville	101,883
ville District Coal Co.....	Marion	101,497
is Mining Co.....	Athens.....	101,301
msville Coal Co.....	Selbytown.....	100,295
otal tons .....	.....	13,753,975

foregoing is a list of the operators of 98 collieries producing 0 tons and less than 200,000; last year the list contained 87 of this class; the year before 72 mines were represented in a r list.

following list of 46 mines presents the names of operators of ies whose output was over 200,000 tons:

15.—*Mines from which more than 200,000 tons of coal have been delivered during the year 1904.*

COMPANIES.	Location.	Days in operation.	Depth of mine.	Thickness of seam.	How worked.	Tons.
Bros. Coal & Coke Co. No. 1.....	Collinsville.....	264	135	7	H.	475,179
yville Coal Co. No. 3	Westville	253	212	7	H.	442,028
nger & Davis No. 3-4.....	Centralia.....	250	637	6	H.	431,247
luddy Coal & Iron Co. No. 7.....	Herrin	257	140	9	H.	412,887
Bros. Coal & Coke Co. No. 2.....	Collinsville.....	249	245	7	M.	390,017
go, Wilmington & Vermilion Coal	Thayer	230	292	7.11	M.	387,652
ville Coal Co. No. 1	Westville	275	210	7	H.	356,042
g Valley Coal Co. No. 1	Spring Valley..	267	345	3.6	H.	348,600
go, Virden Coal Co. No. 1	Virden.....	230	320	7.6	M.	348,388
yville Coal Co., Himrod.....	Himrod.....	230	168	8	H-M.	348,047

Table 15—Concluded.

[illegible]

In this list is given the number of days in operation, depth of the mine, thickness of the seam and the manner of working. These collieries represent only five per cent of the whole number of mines, but furnish 36 per cent of the total tonnage. Four of these mines produced over 400,000 tons, 14 over 300,000 tons, leaving 28 producing over 200,000 tons. One of the mines raising over 400,000 tons and working 250 days produced an average of 1,725 tons per day from a depth of 637 feet below the surface. These mines were in operation an average of 241 days; the average for all shipping mines was 213 days.

The two classes of large mines represented in the two tables, 14 and 15, when combined, account for 144 mines, or only 15 per cent of all the mines, but show a production of 27,214,247 tons of coal, or 73 per cent of the total output of the State.

NUMBER OF MINES.

The following table shows the gain and loss in the number of mines by districts during the year:

TABLE 16—*Gain and Loss in Number of Mines 1903-1904, by Districts.*

DISTRICT.	Total number of mines 1903	Number of new mines opened 1904	Total.	Number of mines abandon'd 1904	Total number of mines 1904	YEAR 1904.	
						Gain.	Loss.
First.....	74	20	94	6	88	14	.....
Second	181	23	204	33	171	.....	10
Third.....	243	13	256	18	238	.....	5
Fourth	87	11	98	2	96	9	.....
Fifth.....	101	14	115	13	102	1	.....
Sixth.....	113	10	123	6	117	4	.....
Seventh.....	134	18	152	32	120	.....	14
The State.....	933	109	1,042	110	932	.....	1

The number of mines this year is one less than last year. The first, fourth, fifth and sixth districts show a gain, while the second, third and seventh show a loss.

The following table exhibits the fluctuation in the number of mines opened and abandoned for a series of fifteen years:

TABLE 17—*Total Number of Mines, the Number Opened and Closed, also the Gain and Loss for 15 years.*

YEAR.	NUMBER OF MINES.					
	At begin- ning of year.	Opened.	Closed.	Gain.	Loss.	At close of year.
1890.....	854	176	94	82	.....	936
1891.....	936	92	110	.....	18	918
1892.....	918	59	138	.....	79	839
1893.....	839	69	120	.....	51	788
1894.....	788	156	108	48	.....	836
1895.....	836	116	78	38	.....	874
1896.....	874	142	115	27	.....	901
1897.....	901	70	118	.....	48	853
1898.....	853	120	92	28	.....	881
1899.....	881	129	121	8	.....	889
1900.....	889	147	116	31	.....	920
1901.....	920	138	143	.....	5	915
1902.....	915	111	111	.....	.....	915
1903.....	915	109	91	18	.....	933
1904.....	933	109	110	.....	1	932
Totals.....	.....	1,743	1,665	280	202	.....

The gain in the number of mines for the fifteen years is 280, while the loss has been 202, leaving a net gain of 78 mines.

SHIPPING MINES.

The shipping mines of the State for the year number 380; these mines are operated by 228 corporations, 20 firms, and 25 individuals, or a total of 273 operators. Forty-five of these operators have from two to 20 mines under one management. The total product of these mines was 35,779,517 tons, or 96.49 per cent of the total output of the State. These same mines loaded on cars at the mines for shipment to the markets 31,778,260 tons, or 88.82 per cent of their product. Of the remainder, 3.32 per cent was supplied to locomotives at the mines, 3.80 was sold to the local trade, and 4.06 consumed or wasted at the mines. The Consolidated Coal company has, for the past two years, with its 20 or more mines, been at the head of this list as the largest producer. This year the Kellyville Coal company heads the list with an output of 1,999,212 tons from its six mines; the Consolidated Coal company is second with 1,849,068 tons produced

; 20 mines. The Spring Valley Coal company; Madison Coal y; Donk Bros. Coal & Coke company; Chicago, Wilmington & ion Coal company; Springfield Coal Mining company, follow her respectively with over 1,000,000 tons.

shows seven coal companies with an output of over 1,000,000 st year there were six, and the year before four. The list fol-

TABLE 18—Shipping or Commercial Collieries—Distribution of Output, 1904.

No. of operators.	NAME OF OPERATOR.	No. of mines.	Postoffice address, location of mine.	Total output, all grades.	DISPOSITION OF OUTPUT.				Consumed and wasted at the mine.
					Tons loaded on cars at the mine for shipment.	Supplied to locomotives at mine chutes.	Sold to local trade.		
1	Kelleyville Coal Co.	6		1,999,212	1,939,127	6,002	13,880	40,203	
	.do	4	Westville	1,314,835	1,279,630	6,002		29,203	
	.do	1	Himrod	348,047	343,047			5,000	
	.do	1	Kelleyville	336,330	316,450		13,880	6,000	
2	Consolidated Coal Co.	20		1,849,068	1,625,138	62,302	42,387	119,241	
	.do	2	Collinsville	280,103	227,669	25,007	9,762	17,665	
	.do	1	Troy	45,058	40,168		1,761	3,129	
	.do	5	Belleville	192,099	173,431		1,687	16,981	
	.do	1	Marissa	46,383	43,571	1,201	14	1,597	
	.do	1	Fairmount	94,118	88,264		2,620	3,234	
	.do	1	Missionfields	30,285	27,603			2,682	
	.do	3	Staunton	420,908	360,362	26,030	10,209	24,307	
	.do	2	Mt. Olive	369,406	345,516		4,064	19,826	
	.do	1	Gillespie	66,988	44,959	10,064	5,295	6,670	
	.do	1	Hornsby	42,145	34,552		1,230	6,363	
	.do	1	Breese	174,807	167,027		1,788	5,992	
	.do	1	Trenton	86,768	72,016		3,957	10,795	

3	Spring Valley Coal Co.....	2	.....	1,305,124	1,207,346	17,534	25,704	54,536
	.do	4	Spring Valley.....	1,189,946	1,106,824	17,534	21,206	44,882
	.do	1	Seatonville	115,178	101,022	.....	4,502	9,651
4	Madison Coal Co.....	6	.....	1,205,377	1,096,164	37,146	16,947	55,120
	.do	1	Divernon.....	286,880	273,616	.....	4,354	8,910
	.do	1	Mt. Olive	224,330	184,860	28,797	1,508	9,165
	.do	2	Glen Carbon	471,148	436,550	3,370	4,049	27,179
	.do	1	Edwardsville	121,136	106,638	979	5,653	7,866
	.do	1	Belleville	101,883	94,500	4,000	1,383	2,000
5	Donk Bros. Coal & Coke Co.	4	.....	1,175,010	1,139,751	2,553	6,400	26,306
	.do	2	Collinsville	865,196	842,227	2,553	2,718	17,698
	.do	1	Troy	291,302	280,812	.....	3,682	6,808
	.do	1	Belleville	18,512	16,712	.....	.....	1,800
6	Chicago, Wilmington & Vermilion Coal Co.	5	.....	1,113,759	1,060,444	.....	17,585	35,730
	.do	1	Thayer	387,652	374,755	.....	2,100	10,797
	.do	2	South Wilmington ..	468,570	445,781	.....	9,291	13,498
	.do	2	Streator.....	257,537	239,908	.....	6,194	11,435
7	Springfield Coal Mining Co.....	6	.....	1,069,752	938,873	42,106	33,252	55,519
	.do	2	Riverton.....	379,793	355,278	113	4,470	19,927
	.do	3	Springfield	481,067	443,135	.....	12,817	25,115
	.do	1	Taylorville	208,892	140,460	41,990	15,965	10,477
8	Big Muddy Coal & Iron Co.....	3	.....	832,759	790,420	.....	3,279	39,060
	.do	2	Murphysboro.....	419,872	392,857	.....	.....	27,015
	.do	1	Herrin	412,887	397,563	.....	3,279	12,045

TABLE 18—Shipping or Commercial Collieries—Distribution of Output, 1904—Continued.

No. of operators.	NAME OF OPERATOR.	No. of mines.	Postoffice address, location of mine.	Total output, all grades.	DISPOSITION OF OUTPUT.			
					Tons loaded on cars at the mine for shipment.	Supplied to locomotives at mine chutes.	Sold to local trade.	Consumed and wasted at the mine.
9	Chicago-Virden Coal Co.....	3	.....	691,252	661,413	.....	13,140	16,700
	.do	1	Auburn	237,963	231,678	.....	2,386	3,909
	.do	1	Chatham	104,881	98,155	.....	2,422	4,305
	.do	1	Virden	348,388	331,580	.....	8,322	8,486
10	LaSalle County Carbon Coal Co.....	4	LaSalle	672,408	513,159	79,776	59,723	19,750
11	Manufacturers' Fuel Co.....	8	.....	494,628	441,667	.....	30,387	22,574
	.do	1	Pana	110,503	101,436	.....	2,112	6,956
	.do	1	Nilwood.....	63,463	61,638	.....	1,825	.....
	.do	2	Duquoin	176,621	168,161	.....	2,650	5,810
	.do	1	Pinckneyville	65,458	60,782	.....	.....	4,676
	.do	2	St. Johns	51,759	49,127	.....	.....	2,632
	.do	1	Decatur.....	26,824	524	.....	23,800	2,500
12	Pittinger & Davis Co.	1	Centralia.....	431,247	279,862	102,637	20,353	28,395
13	Jones & Adams Co.....	2	.....	397,662	376,699	.....	9,666	11,297
	.do	1	Springfield	261,991	246,051	.....	9,014	6,926
	.do	1	Catlin	135,671	130,648	.....	652	4,371
1	Westville Coal Co.....	2	Westville	376,042	368,180	.....	3,562	4,300

15	Wills Coal Mining Co.....	4	.....	357,144	230,729	89,744	1,052	3,549
	.do	1	Willisville.....	241,751	147,408	89,744	1,052	3,549
	.do	1	Bryden.....	22,408	21,833	.....	192	378
	.do	2	Percy	92,990	82,490	.....	2,700	3,800
16	Southern Illinois Coal Mining Co.....	2	Marion.....	356,099	270,840	.....	78,018	7,241
17	Sunnyside Coal Co.....	1	Herrin	345,767	318,846	.....	1,543	25,378
18	Chicago & Carterville Coal Co.....	1	.do.....	343,006	329,268	.....	2,702	11,038
19	Devlin Coal Co.....	1	Toluca	339,239	283,344	30,718	6,282	18,885
20	Muren Coal & Ice Co.....	2	.....	330,240	298,517	8,461	5,692	17,570
	.do	1	Belleville.....	159,771	140,579	8,461	3,292	7,439
	.do	1	New Baden.....	170,469	157,938	.....	2,400	10,131
21	St. Louis & O'Fallon Coal Co.....	1	Belleville	318,579	314,979	1,856	20	1,724
22	Staunton Coal Co.....	1	Staunton	315,853	300,396	6,990	2,417	6,050
23	Whitebreast Fuel Co.....	3	.....	309,735	298,603	.....	597	10,535
	.do	2	Dunfermline	272,800	262,500	.....	597	9,703
	.do	1	St. David.....	36,935	36,103	.....	.....	832
24	Citizens' Coal Mining Co.....	3	.....	292,165	225,284	37,682	14,713	14,486
	.do	1	Lincoln	105,880	62,333	21,616	13,639	8,292
	.do	2	Springfield	186,285	162,951	16,066	1,074	6,194
25	Lumaghi Coal Co.....	2	Collinsville.....	272,469	268,442	.....	.....	4,027
26	Breese Coal Mining Co	1	Breese.....	271,667	227,267	36,000	6,000	2,400
27	Marquette Third Vein Coal Co.....	2	.....	257,001	238,733	.....	5,148	13,120
	.do.....	1	Marquette.....	247,142	231,714	.....	3,126	12,302
	.do.....	1	Sparland	9,859	7,019	.....	2,022	818

TABLE 18—Shipping or Commercial Collieries—Distribution of Output, 1904—Continued.

No. of operators.	NAME OF OPERATOR.	No. of mines.	Postoffice address, location of mine.	Total output, all grades.	DISPOSITION OF OUTPUT.			
					Tons loaded on cars at the mine for shipment.	Supplied to locomotives at mine chutes.	Sold to local trade.	Consumed and wasted at the mine.
28	Wabash Coal Co.....	2	.....	251,309	237,048	.....	5,511	8,750
	.do.....	1	Dawson.....	107,606	101,189	.....	2,667	3,750
	.do.....	1	Athens.....	143,703	135,859	.....	2,844	5,000
29	Victor Coal Co.....	1	Pana.....	249,315	235,823	2,122	7,499	3,889
30	Illinois Third Vein Coal Co.....	1	Ladd.....	248,464	230,466	2,100	10,328	5,570
31	Missouri & Illinois Coal Co.....	4	.....	245,091	235,168	.....	804	9,119
	.do.....	1	Willisville.....	62,024	60,324	.....	450	1,250
	.do.....	3	Belleville.....	183,067	174,844	.....	354	7,869
32	Centralia Mining & Mfg. Co.....	1	Centralia.....	243,171	152,541	69,477	14,829	6,324
33	Latham Coal Co.....	1	Lincoln.....	230,099	208,099	.....	11,000	13,000
34	St. Louis & Big Muddy Coal Co.....	1	Dewmain.....	227,261	205,941	2,551	1,516	17,253
35	Newsam Bros.....	5	.....	235,492	209,224	.....	8,900	7,368
	.do.....	4	Peoria.....	181,758	170,525	.....	5,400	5,833
	.do.....	1	Farmington.....	43,734	38,699	.....	3,500	1,526
36	Muddy Valley Mining & Mfg. Co.....	1	Hallidayboro.....	222,516	150,251	69,912	2,353	.....
37	Coal Valley Mining Co.....	2	.....	222,056	209,639	292	3,175	8,950
	.do.....	1	Sherrard.....	151,203	141,774	62	3,175	6,192
	.do.....	1	Cable.....	70,853	67,865	230	.....	2,758

39	Carterville Coal Co.....	2	.....	202,429	.....	1,200	5,974
40	Spaulding Coal Co.....	2	.....	178,718	.....	11,768	9,974
	.do.....	1	Spaulding.....	89,871	.....	10,568	5,234
	.do.....	1	Bissell	88,847	.....	1,200	4,740
41	Big 4 Wilmington Coal Co.....	3	.....	188,291	.....	2,100	8,510
	.do.....	2	Coal City.....	182,498	.....	2,100	8,420
	.do.....	1	Eileen.....	5,793	.....	.....	90
42	Capitol Coöperative Coal Co.....	1	Springfield.....	100,530	27,105	50,006	19,703
43	Kolb Coal Co.....	2	Mascoutah.....	147,821	35,729	6,776	4,704
44	Empire Coal Co.....	1	Gilchrist	185,835	.....	2,565	3,500
45	Kerns-Donniewald Coal Co.....	1	Worden	180,747	.....	5,268	4,000
46	Christian County Coal Co.....	1	Taylorville.	175,825	.....	9,159	3,129
47	Wilmington Coal Mining & Mfg. Co.....	2	Diamond.....	179,463	.....	3,192	5,000
48	Dutch Hollow Coal Co.....	3	.....	176,757	.....	4,018	6,770
	.do.....	1	Belleville.....	83,817	.....	930	2,681
	.do.....	1	Freeburg	65,213	.....	1,278	2,762
	.do.....	1	Marissa.....	27,727	.....	1,810	1,327
49	Braceville Coal Co.....	2	Braceville	172,443	.....	3,000	8,535
50	White Walnut Coal Co.....	1	Pinckneyville	141,644	40,247	1,874	1,004
51	Girard Coal Co.....	1	Girard.....	175,943	.....	5,134	2,235
52	Monmouth Coal Co	1	Brereton	178,713	.....	1,200	3,138
53	Sandoval Coal Co.....	1	Sandoval	176,903	.....	1,980	3,660
54	Wilmington Star Mining Co.....	3	Coal City	167,077	.....	4,631	7,329
55	Sorento Coal Co.....	1	Sorento	166,387	.....	2,836	6,893

TABLE 18—Shipping or Commercial Collieries—Distribution of Output, 1904—Continued.

No. of operators.	NAME OF OPERATOR.	No. of mines.	Postoffice address, location of mine.	Total output, all grades.	DISPOSITION OF OUTPUT.			
					Tons loaded on cars at the mine for shipment.	Supplied to locomotives at mine chutes.	Sold to local trade.	Consumed and wasted at the mine.
56	Royal Coal Co.....	1	Belleville.....	172,442	163,442	.....	.....	9,000
57	Acme Coal Co.....	1	Streator.....	166,280	125,568	.....	10,789	29,903
58	New Virginia Coal Co.....	1	Lake Creek.....	165,710	165,710	.....	.....	.....
59	Mapleton Coal Co.....	1	Peoria.....	162,749	162,749	.....	.....	.....
60	Greenridge Mining Co.....	1	Greenridge.....	161,834	155,605	.....	3,539	2,690
61	Woodside Coal Co.....	1	Springfield.....	160,536	115,836	28,500	9,800	6,400
62	Springfield Coöperative Coal Co.....	1	Springfield.....	160,000	128,000	.....	28,000	4,000
63	Hillsboro Coal Co.....	1	Hillsboro.....	156,498	142,298	.....	9,945	4,255
64	Penwell Coal Co.....	1	Pana.....	156,267	125,960	9,217	12,109	8,981
65	Taylor & Cavanaugh.....	2	Carbon Hill.....	155,711	141,852	.....	3,534	10,325
66	Alden Coal Co.....	2	Wanlock.....	155,154	144,742	841	2,176	7,395
67	West End Coal Co.....	1	Springfield.....	150,272	115,201	11,052	20,058	3,961
68	McLean County Coal Co.....	1	Bloomington.....	150,000	30,000	35,000	60,000	25,000
69	Trenton Coal Co.....	1	Trenton.....	149,816	126,068	.....	10,049	13,699
70	Western Anthracite Coal & Coke Co.....	1	Sparta.....	148,000	144,000	.....	.....	4,000
71	Chicago-Herrin Coal Co.....	1	Herrin.....	147,571	143,980	.....	2,160	1,431
72	Greenvlew Coal Mining Co.....	1	Greenvlew.....	145,772	130,235	4,467	11,020
73	Viriden Coal Co.....	1	Viriden.....	141,642	125,435	6,986	5,365	3,826

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74	Davenport Coal Co.....	1	Lebanon.....	139,071	117,108	20,001	624	1,622
75	Montgomery County Coal Co.....	1	Paisley.....	136,863	131,385	3,652	1,846
76	Star Coal Co.....	3	.....	136,836	131,106	.....	2,605	2,925
	.do.....	1	Vandercook.....	9,500	9,500	.....	.....	.....
	.do.....	2	Kangley.....	127,336	121,608	.....	2,805	2,925
77	Jefferson Coal Co.....	1	Springfield.....	131,052	117,456	.....	10,889	2,707
78	Chicago & Big Muddy Coal & Coke Co.....	1	Marion.....	128,429	125,023	.....	170	3,236
79	Johnson City & Big Muddy Coal & Mining Co.....	1	Lake Creek.....	128,399	124,999	.....	400	3,000
80	Williamson County Coal Co.....	1	.do.....	128,331	124,931	.....	.....	3,400
81	Sangamon Coal Co.....	1	Springfield.....	126,005	118,506	.....	3,720	3,779
82	Glendale Coal Co.....	2	Belleville.....	122,650	106,650	.....	6,100	9,900
83	Clark Coal & Coke Co.....	1	Peoria.....	122,230	113,340	.....	.....	8,890
84	Wenona Coal Co.....	1	Wenona.....	121,105	105,705	.....	10,600	4,800
85	Auburn & Alton Coal Co.....	1	Auburn.....	121,080	111,531	.....	7,099	2,460
86	Cantrall Coöperative Coal Co.....	1	Cantrall.....	116,611	88,687	24,462	1,737	1,275
87	Walnut Hill Coal Co.....	1	Belleville.....	115,457	113,657	.....	200	1,600
88	Roanoke Coal & Mining Co.....	1	Roanoke.....	115,128	93,122	6,297	8,459	7,250
89	Newbent Coal Co.....	1	Pana.....	113,977	106,677	.....	.....	7,300
90	Lake Superior Coal Co.....	2	.....	113,124	108,711	.....	1,988	2,425
	.do.....	1	Belleville.....	35,734	33,634	.....	1,500	600
	.do.....	1	Duquoin.....	77,390	75,077	.....	488	1,825
91	Oglesby Coal Co.....	1	Oglesby.....	113,016	102,631	.....	4,341	6,044
92	New Ohio Washed Coal Co.....	1	Carterville.....	112,736	106,000	.....	1,936	4,800
93	Gartside Coal Co.....	2	Murphysboro.....	112,012	96,419	.....	993	14,600
94	Pana Coal Co.....	1	Pana.....	110,513	59,918	28,830	8,805	12,960

TABLE 18—Shipping or Commercial Collieries—Distribution of Output, 1904—Continued.

No. of operators.	NAME OF OPERATOR.	No. of mines.	Postoffice address, location of mine.	Total output, all grades.	DISPOSITION OF OUTPUT.			
					Tons loaded on cars at the mine for shipment.	Supplied to locomotives at mine chutes.	Sold to local trade.	Consumed and wasted at the mine.
95	Horns Colliery Co.....	1	Duquoin	110, 184	110, 184	.....	.....	.....
96	Carlinville Coal Co.....	1	Carlinville	109, 654	92, 623	1, 639	11, 242	4, 150
97	Wilmington & Superior Co.....	1	Springfield	109, 258	92, 563	.....	11, 617	5, 078
98	Superior Coal Mining Co.....	1	Belleville	109, 199	107, 069	.....	.....	2, 100
99	Moweaqua Coal Mining Co.....	1	Moweaqua.....	109, 192	71, 654	20, 724	10, 592	6, 222
100	Mathesson & Hegeler Zinc Co.....	1	LaSalle	105, 557	.....	938	5, 252	99, 347
101	Litchfield Mining & Power Co.....	1	Litchfield.....	105, 114	77, 871	2, 200	22, 643	2, 400
102	Mrs. E. Hakes	1	Rutland	104, 814	69, 329	26, 863	4, 972	3, 650
103	Norris Coal Mining Co.....	1	Norris.....	104, 761	91, 161	11, 400	1, 000	1, 200
104	Economy Coal Mining Co.....	1	Danville	103, 068	77, 600	23, 280	.....	2, 188
105	Shull Bros.....	1	Peoria	103, 049	102, 500	.....	549	.....
106	Carterville District Coal Co.....	1	Marion	101, 497	96, 978	.....	.....	4, 510
107	Athens Mining Co.....	1	Athens	101, 301	95, 650	.....	2, 724	2, 927
108	Williamsville Coal Co.....	1	Selbytown.....	100, 295	87, 865	.....	8, 220	4, 210
109	Assumption Coal Mining Co.....	1	Assumption	96, 534	76, 483	.....	10, 888	9, 163
110	Moffat Coal Co.....	1	Sparta.....	96, 309	94, 995	.....	804	510
111	Joseph Taylor Coal Co.....	1	O'Fallon.....	95, 602	88, 282	3, 640	3, 680
112	Barclay Coal Mining Co.....	1	Barclay.....	94, 399	83, 808	6, 378	4, 213

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113	Cloverleaf Coal Mining Co.....	1	Conceal.....	88,204	2,982	1,800
114	Borders Coal Co.....	1	Marissa	81,865	3,350	835
115	Joseph Taylor.....	2	O'Fallon	78,688	265	1,860	5,180
116	Applegate & Lewis.....	1	Cuba	64,900	15,000	100	3 000
117	Walschlag Coöperative Coal Co.....	1	Peoria	82,376	.....	.....	.....
118	George Hippard.....	2	Belleville.....	68,485	7,565	854	4,247
119	Trutter Coal Co.....	1	Pleasant Plains.....	59,000	.....	20,000	2,000
120	Valley Coal Mining Co	1	East St. Louis	78,150	.....	50	1,800
121	Decatur Coal Co	2	.....	52,391	.....	26,983	.....
	.do	1	Niantic	32,391	.....	7,538	.....
	.do	1	Decatur	20,000	.....	19,445	.....
122	Cardiff Coal Co	1	Cardiff	71,543	.....	4,283	3,348
123	Daniel Zildorph	1	Marion.....	76,787	.....	292	1,250
124	Illinois Fuel Co	2	Sparta.....	71,216	3,748	.....	2,460
125	Donally-Koeuneck Coal Co	1	Carterville	70,828	.....	300	2,920
126	Oak Hill Coal Co.....	1	Belleville.....	70,630	.....	811	2,518
127	Clifton Coal Co.....	1	Ledford.....	70,647	.....	.....	2,000
128	Central Coal Mining Co	1	St. David	70,910	.....	.....	1,210
129	Estate of James Cahill	1	Peru	30,000	22,000	18,000	2,000
130	Germanatown Coal Co	1	Germanatown	62,438	.....	4,200	5,350
131	Eureka Coal Co.....	1	Marissa	67,532	.....	1,733	2,000
132	Lincoln Coal Co.....	1	Lincoln	58,274	1,800	7,000	4,100
133	Summit Coal Co.....	1	Belleville	68,070	.....	130	700
134	Illinois Zinc Co.....	1	Peru	67,620	.....	288	744
135	Henrietta Coal Co	1	Edwardsville	59,182	.....	7,085	2,217

TABLE 18—*Shipping or Commercial Collieries—Distribution of Output, 1904—Continued.*

No. of operators.	NAME OF OPERATOR	No. of mines.	Postoffice address, location of mine.	Total output, all grades.	DISPOSITION OF OUTPUT.			
					Tons loaded on ears at the mine for shipment.	Supplied to locomotives at mine chutes.	Sold to local trade.	Consumed and wasted at the mine.
136	East Cuba Coal Co	1	Cuba	67,421	63,198	.....	.....	4,223
137	Terre Coal Mining Co	1	Lenzburg	67,382	65,397	.....	665	1,300
138	Gas Coal Co	1	Harrisburg	67,000	65,800	.....	400	800
139	Belleville & O'Fallon Coal Co	1	Belleville	66,992	54,196	.....	7,627	5,169
140	Robt. Dick Coal Co	1	Carterville	61,821	60,571	.....	250	1,000
141	Lebanon Coal Mining Assn	1	Lebanon	60,793	48,747	.....	6,012	6,034
142	Gallatin Coal & Coke Co	1	Equality	60,178	41,687	3,635	9,707	5,149
143	Howarth & Taylor	1	Edwards	60,125	58,121	.....	.....	2,004
144	O'Fallon Coal & Mining Co	1	O'Fallon	57,979	53,485	.....	1,851	2,643
145	Kewanee Coal Mining Co	1	Kewanee	56,290	45,000	.....	9,490	1,800
146	John O'Connell Coal Co	1	Danville	54,893	52,845	.....	1,482	566
147	Colileo Coöperative Coal Co	1	Bartonville	54,390	53,380	.....	.....	1,000
148	Gardner-Wilmington Coal Co	1	Clark City	53,405	15,068	31,659	1,825	4,853
149	Soper & Co	1	Cutler	53,258	46,658	4,200	1,200	1,200
150	Johnson Coal Co	1	Marissa	52,652	51,215	.....	.....	1,457
151	Crystal Coal Co	1	Tilden	52,172	52,172	.....	.....	.....
152	Electric Coal Co	1	Danville	51,384	49,384	.....	.....	2,000
153	Little Muddy Coal Co	1	Tamaroa	51,200	50,452	.....	380	368

154	WILLIAM DAVIS COAL CO	1	Duquoin.....	51,084	45,174	.....	4,000	.....
155	Chicago & Carbondale Coal Co	1	Elk Ridge.....	50,000	48,000	.....	.....	2,000
156	Royal Colliery Coal Co	1	Virden.....	49,870	47,930	.....	1,240	700
157	W. E. Foley.....	2	.....	49,370	47,270	.....	.....	2,100
	do.....	1	Canton.....	31,390	29,870	.....	.....	1,520
	do.....	1	Mapleton.....	17,980	17,400	.....	.....	580
158	Joseph Guest & Sons.....	1	Belleville.....	48,758	48,355	.....	153	250
159	Wm. Ratican.....	1	Caseyville.....	46,700	42,000	.....	100	4,600
160	Tilden Coal Co.....	1	Tilden.....	46,143	44,016	.....	591	1,536
161	Boyle Coal & Coke Co.....	1	Sparta.....	45,000	35,000	.....	7,500	2,500
162	Phoenix Coal Co.....	1	Peoria.....	43,232	42,632	.....	600	.....
163	Colfax Coal Co.....	1	Colfax.....	42,966	30,099	6,859	4,069	1,939
164	South Mountain Coal Co.....	1	Petersburg.....	40,343	30,596	3,255	4,940	1,552
165	Tallula Coal Co.....	1	Tallula.....	39,268	34,083	.....	3,725	1,460
166	DeCamp Coal Mining Co.....	1	Staunton.....	38,850	36,700	.....	200	1,950
167	Vickery Bros.....	1	Peoria.....	38,040	35,000	.....	2,440	600
168	Highland Coal Co.....	1	Belleville.....	36,452	20,461	1,194	7,689	7,109
169	Canton Union Coal Co.....	1	Canton.....	35,324	30,000	.....	4,524	800
170	Scripps Coal Co.....	1	Astoria.....	34,680	33,870	.....	.....	810
171	Central Coal & Coke Co.....	1	Elmwood.....	34,606	30,486	.....	2,920	1,200
172	Enterprise Mining Co.....	1	Rentchler.....	33,600	33,000	.....	.....	600
173	Chicago & Coulterville Coal Co.....	1	Coulterville.....	32,892	30,892	.....	500	1,500
174	Farmington Coal Co.....	1	Farmington.....	32,480	26,850	.....	.....	5,630
175	Murphy-Keenan & Co.....	1	Braidwood.....	30,262	23,688	.....	5,479	1,095
176	Perry County Coal Co.....	1	Duquoin.....	30,234	29,707	.....	327	200

TABLE 18—Shipping or Commercial Collieries—Distribution of Output, 1904—Continued.

No. of operators.	NAME OF OPERATOR.	No. of mine.	Postoffice address, location of mine.	Total output, all grades.	DISPOSITION OF OUTPUT.			
					Tons loaded on cars at the mine for shipment.	Supplied to locomotives at mine chutes.	Sold to local trade.	Consumed and wasted at the mine.
177	Humboldt Coal Co.....	1	Belleville.....	30,000	24,000	.....	4,000	2,000
178	Skellet Coal Co.....	1	do.....	30,000	28,000	.....	.....	2,000
179	Sunlight Coal Co.....	1	Freeburg.....	29,925	26,372	.....	2,803	750
180	Wyoming Coal Co.....	1	Wyoming.....	29,658	27,000	.....	2,000	658
181	Coulterville Mining Co.....	1	Coulterville	29,300	26,126	.....	2,524	650
182	Petersburg Coal Mining Co.....	1	Petersburg	29,135	27,330	.....	1,258	547
183	Lenz Coal & Mining Co.....	2	Belleville.....	28,608	26,918	.....	.....	1,685
184	Carterville & Big Muddy Coal Co.....	1	Lauder.....	27,831	27,431	.....	.....	400
185	Inter-State Coal Mining Co.....	1	Worden	27,353	25,574	.....	126	1,653
186	Superior Coal Co.....	2	Gillespie.....	25,962	25,904	.....	.....	58
187	Chas. Hartman.....	1	Belleville.....	25,885	18,700	.....	7,085	100
188	Tazewell County Coal Co.....	1	Pekin	25,300	17,600	.....	7,000	700
189	A. Rentz Bros.....	1	Kramm.....	25,230	23,600	.....	1,630	.....
190	Joliet-Wilmington Coal Co.....	1	Braidwood.....	25,000	21,800	.....	2,400	800
191	A. E. Powell.....	1	Coulterville.....	24,733	23,083	.....	.....	1,640
192	Beggs-Davis & Co.....	1	Fairbury	24,200	11,570	9,480	1,680	1,460
193	Silvis Mining Co.....	1	Carbon Cliff	23,936	22,761	.....	300	875
194	Etherly Coal Co.....	1	Etherley	23,080	22,164	876	40	.....

STATISTICS OF LABOR.

COAL IN ILLINOIS.

196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219
LUXHURST COAL CO.																							
196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219
Mauck Bros	Eaton Fuel Co.	Erie Star Coal Co.	C. B. Kramm	Yates City Coal Co.	Consumers Coal Co.	Hugh Murray	Rippetoe & Rundle	Western Coal and Mining Co.	C. J. White	Essex & Fritz Coal Co.	Lake Erie Coal Mining Co.	Little Coal Co.	Spoon River Coal Co.	Pittsburg Mining Co.	Fred Murphy	Jas. Walker	Ensley Coal Co.	Millstadt Coal Co.	Chicago & Marion Coal Co.	Third Vein Coal Co.	Peter Grant & Son	Gus Blair Big Muddy Coal Co.	Atlas Coal Co.
1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1
Danville	Sunfield	Peoria	Peoria	Yates City	Chenoa	Nashville	Colchester	Bush	Grape Creek	Galesburg	Peoria	Peoria	Galesburg	Belleville	Belleville	Mapleton	Petersburg	Millstadt	Marion	Orchard Mines	Peoria	Murphysboro	Galva
22,383	21,975	21,615	20,200	20,000	20,000	19,930	19,727	18,821	18,513	18,500	18,200	18,140	16,980	16,680	16,000	15,957	15,280	15,000	14,266	13,920	13,630	12,980	11,989
11,200	21,000	14,740	19,600	16,000	4,500	3,514	19,502	18,649	18,333	18,500	7,641	17,690	16,320	13,400	14,000	15,957	12,000	12,000	12,979	11,811	13,380	12,000	10,079
10,833	900	5,717		3,000	14,000	3,438			100		9,909			3,000	2,000		3,260	2,000	1,287	1,259		600	1,510
300	75	1,161	600	1,000	1,500		225		80		650	450	640	280				1,000		850	240	360	400

TABLE 18—Shipping or Commercial Collieries—Distribution of Output, 1904—Continued.

No. of operators.	NAME OF OPERATOR.	No. of mines.	Postoffice address, location of mine.	Total output, all grades.	DISPOSITION OF OUTPUT.			
					Tons loaded on cars at the mine for shipment.	Supplied to locomotives at mine chutes.	Sold to local trade.	Consumed and wasted at the mine.
220	Bunting Bros.....	1	Grape Creek.....	11,897	6,011	.....	5,886	.....
221	Home Coal Co.....	1	Mt. Pulaski.....	11,851	1,541	.....	8,636	1,674
222	Strait Coal Co.....	1	Pinckneyville.....	11,415	7,970	.....	2,845	600
223	Middleton Coal Co.....	1	Middleton.....	11,317	8,606	.....	1,456	1,255
224	Chicago Superior Coal Co.....	1	Springfield.....	11,087	10,637	.....	.....	450
225	Oakwood Coal Co.....	1	Oakwood.....	11,000	9,000	.....	2,000	.....
226	Wm. Francis.....	1	Streator.....	11,000	160	.....	10,840	.....
227	Carterville Mining Co.....	1	Herrin.....	10,884	9,901	.....	40	943
228	Kinmundy Coal Co.....	1	Kinmundy.....	10,745	7,084	.....	1,894	1,767
229	German Coal Co.....	1	Peoria.....	10,700	10,470	.....	.....	230
230	W. H. Wilson.....	1	Duquoin.....	10,000	1,300	.....	8,700	.....
231	Century Coal Co.....	1	Tower Hill.....	10,000	3,000	.....	5,000	2,000
232	Dutch Hill Coal Co.....	1	New Athens.....	10,000	6,500	.....	3,000	500
233	E. S. Gray.....	1	Oakwood.....	10,000	10,000	.....	.....	.....
234	Peabody Mining Co.....	1	Sherman.....	9,500	9,100	.....	.....	400
235	Morris Coal Co.....	1	Carriers Mills.....	9,410	9,000	.....	.....	410
236	Monarch Coal Mining Co.....	1	Farmington.....	9,233	6,918	.....	499	1,816
237	J. Riley.....	1	Breeds.....	8,985	8,720	245	.....	.....

STATISTICS OF LABOR.

239	Furness Coal Co.....	1	Augusta.....	8,320	8,320	.....	.....	.....
240	G. & J. Meredith.....	1	Seneca.....	8,190	5,345	2,164	.....	681
241	North Wilmington Coal Co.....	1	Duquoin.....	8,000	6,000	500	.....	1,500
242	Davis Coal & Iron Co.....	1	Streator.....	7,952	1,885	5,867	.....	200
243	Howe Coal Co.....	1	Braidwood.....	7,834	7,834	.....	.....	.....
244	Rixon Coal Co.....	1	Eldorado.....	6,443	4,425	2,018	.....	.....
245	Eldorado Coal Co.....	1	Cable.....	6,320	4,800	1,170	.....	350
246	Alfred Lilliman.....	1	Muncie.....	6,000	2,000	3,700	.....	300
247	F. W. Davis.....	1	Murphysboro.....	5,953	46	5,593	.....	314
248	Schmidtgal Coal Co.....	1	Herrin.....	5,950	5,900	50	.....	.....
249	Carterville & Herrin Coal Co.....	1	Edwards.....	5,640	5,450	.....	.....	190
250	Cussack & Edwards.....	1	Colfax.....	5,174	3,183	1,161	.....	210
251	Colfax Cöoperative Co.....	1	Salem.....	4,854	570	2,939	.....	1,345
252	Salem Coal Co.....	1	Boden.....	4,800	700	3,900	.....	200
253	Arthur Jones.....	1	Mascoutah.....	4,704	4,497	.....	.....	207
254	Beatty Coal Co.....	1	Zeigler.....	4,240	2,845	20	.....	1,325
255	Zeigler Coal Co.....	1	Colchester.....	4,127	4,127	.....	.....	.....
256	Burney & Co.....	1	Cable.....	4,000	3,480	320	.....	200
257	B. B. Peterson.....	1	Carterville.....	3,935	926	3,009	.....	.....
258	M. Hampton.....	1	Raymond.....	3,550	625	2,840	.....	85
259	Miller Coal Co.....	1	Cornell.....	3,282	2,782	400	.....	100
260	Manhattan Coal Co.....	1	Streator.....	3,195	1,250	1,945	.....	.....
261	Benjamin Davis.....	1	Pontiac.....	2,919	799	2,000	.....	120
262	Brady Coal Co.....	1						

TABLE 18—Shipping or Commercial Collieries—Distribution of Output. 1904—Concluded.

STATISTICS OF LABOR.									
No. of operators.	NAME OF OPERATOR.	No. of mines.	Postoffice address, location of mines.	Total output, all grades.	DISPOSITION OF OUTPUT.				Consumed and wasted at the mine.
					Tons loaded on cars at the mine for shipment.	Supplied to locomotives at mine chutes.	Sold to local trade.		
263	Volunteer Coal Co.....	1	Coal Valley.....	2,532	1,786	.....	546	200
264	Briar Bluff Coal Co.....	1	Briar Bluff.....	2,480	2,458	.....	22	.....
265	St. Louis-Carterville Coal Co.....	1	Herrin	2,357	1,257	.....	985	115
266	Moore & Mahlstrom.....	1	Coal Valley.....	2,270	680	.....	1,384	206
267	Edinburg Coal Co.....	1	Edinburg.....	1,886	.....	.....	1,365	521
268	Geo. W. Fenewick.....	1	Danville.....	1,700	300	.....	1,350	50
269	A. Anderson & Sons.....	1	Streator.....	1,423	393	.....	1,030	.....
270	Blue & Hall.....	1	Grape Creek.....	1,140	1,040	.....	100	.....
271	East Side Coal Co.....	1	Equality	1,063	800	200	.....	63
272	Young & Ellis.....	1	Danville.....	557	40	.....	517	.....
273	Watson Coal Co.....	1	Carterville.	200	141	.....	49	10
	Total.....	380	.....	35,779,517	31,778,280	1,187,331	1,360,132	1,453,794

*No report of tons shipped.

GRADED OUTPUT FOR THE YEAR.

The achievement of the mines of the State, in the production of the different grades of merchantable coal, is presented in the following table:

TABLE 19—*Output of the Shipping and Local Mines of the State with Tons of the Different Grades of Coal by Districts—1904.*

DISTRICT.	Total output— Tons.	TONS OF THE DIFFERENT GRADES OF COAL.					
		Mine run.	Lump.	Egg.	Nut.	Pea or Screen- ings.	Slack or waste.
First.....	3,322,268	353,402	1,902,003	243,003	101,709	673,503	48,648
Second	3,036,056	248,200	2,151,084	11,664	26,004	491,643	107,461
Third	2,707,067	699,264	1,298,998	108,702	173,827	287,897	133,379
Fourth	4,901,660	3,181,689	1,003,882	77,213	145,441	356,775	136,660
Fifth	7,177,268	1,683,152	3,503,554	113,434	218,602	1,464,814	193,712
Sixth	8,530,028	2,298,155	4,370,758	59,868	251,024	1,284,346	265,877
Seventh	7,105,170	1,805,423	1,866,724	394,788	659,615	1,091,661	286,959
Shipping mines	35,779,517	10,269,285	16,097,003	1,008,672	1,581,222	5,650,639	1,172,696
Local mines	1,298,380	358,619	791,007	6,028	21,161	100,931	20,634
Total	37,077,897	10,627,904	16,888,010	1,014,700	1,602,383	5,751,570	1,193,330

The increase in tonnage of the shipping mines over last year is 6.25 per cent; the increase of the local mines is 1.53 per cent.

In some of the districts the decrease in the tonnage of slack, or waste coal, compared with last year is quite marked; for the State the decrease of this grade is 16.08 per cent from last year.

The following table presents the percentages of the different grades of coal produced from the mines of the State:

TABLE 20—*Percentages of the Total Output of the Different Grades of Coal, Shipping and Local Mines, by Districts.*

DISTRICT.	Per cent of total output.	PERCENTAGES OF THE DIFFERENT GRADES OF COAL					
		Mine run.	Lump.	Egg.	Nut.	Pea or Screen-ings.	Slack or waste.
First.....	9.31	10.64	57.25	7.32	3.06	20.27	1.46
Second.....	8.51	8.18	70.85	0.38	0.86	16.19	3.54
Third.....	7.58	25.83	47.99	4.01	6.61	10.63	4.93
Fourth	13.73	64.91	20.48	1.57	2.97	7.28	2.79
Fifth	20.11	23.45	48.81	1.58	3.05	20.41	2.70
Sixth	23.87	26.94	51.24	0.70	2.94	15.06	3.12
Seventh	16.89	29.72	30.62	6.41	10.87	17.72	4.76
Shipping mines	100.00	28.71	45.03	2.80	4.42	15.76	3.28
Local mines	100.00	27.62	60.92	0.47	1.63	7.77	1.59

The output of the shipping mines in the sixth district is nearly one-fourth of the total of the State; this district, in conjunction with the fifth and seventh, supplied 61 per cent of the total output. For the State the percentages of the different grades vary but little from those of last year.

The local mines show a decrease in tons of mine-run grades, of 9.6 per cent, and an increase of lump of 5.82 per cent compared with last year. This is the fifth year that the graded tonnage of the State has been published in these reports. A comparative table for these years is presented:

TABLE 21—*Total Output of the Different Grades of Coal, All Mines, for Five Years, with Percentages.*

YEAR.	Total output— tons.	TONS OF THE DIFFERENT GRADES OF COAL.					
		Mine run.	Lump.	Egg.	Nut.	Pea or screenings	Slack or Waste.
1900.....	25,153,929	5,554,627	13,927,899	495,637	1,323,582	2,811,520	1,040,874
1901.....	26,635,319	6,882,740	13,321,124	486,596	1,217,127	3,667,591	1,060,141
1902.....	30,021,300	6,986,204	15,041,673	680,985	1,586,456	4,604,232	1,121,750
1903.....	34,955,400	10,373,098	15,874,509	995,163	1,775,704	4,540,431	1,416,495
1904.....	37,077,897	10,627,904	16,888,010	1,014,700	1,602,383	5,751,570	1,193,330
Percentages..							
1900.....	.....	22.08	55.37	1.97	5.26	11.18	4.14
1901.....	.....	25.84	50.01	1.83	4.57	13.77	3.98
1902.....	.....	23.27	50.10	2.27	5.28	15.34	3.74
1903.....	.....	29.70	45.41	2.84	5.02	12.98	4.05
1904.....	.....	28.66	45.55	2.74	4.32	15.51	3.23

It will be noticed that there is very little change in the gradation of the output for the past two years. However, the percentages of mine-run and lump grades is substantially maintained.

The output of the mines of the State with the gain or loss in tonnage is presented by districts in the following table:

TABLE 22—*Output for the Years 1902, 1903 and 1904, Compared by Districts.*

DISTRICT.	TOTAL OUTPUT—TONS.			Gain (+) or loss (—) 1903 over 1902.	Gain (+) or loss (—) 1904 over 1903.	PERCENTAGES OF GAIN (+) OR LOSS (—)	
	1902.	1903.	1904.			1903 over 1902.	1904 over 1903.
First.....	3,729,724	3,748,651	3,450,315	+ 18,927	— 298,336	+ .51	— 7.93
Second	3,104,516	3,245,781	3,321,490	+ 141,265	+ 76,709	+ 4.55	+ 2.36
Third.....	2,413,463	2,708,350	3,058,414	+ 294,887	+ 350,064	+ 12.22	+ 12.92
Fourth.....	3,939,864	4,772,284	5,142,786	+ 832,420	+ 370,502	+ 21.13	+ 7.76
Fifth.....	6,213,386	7,070,903	7,280,287	+ 857,517	+ 209,384	+ 13.80	+ 2.96
Sixth	6,241,847	7,734,831	8,634,726	+ 1,492,984	+ 899,895	+ 23.92	+ 11.63
Seventh	4,378,500	5,674,600	6,100,879	+ 1,296,100	+ 514,279	+ 29.60	+ 9.06
The State...	30,021,300	34,955,400	37,077,897	+ 4,934,100	+ 2,122,497	+ 16.43	+ 6.07

The first district shows a decrease of eight per cent in the output for this year compared with that of last year. All the other districts show an increase. The third and sixth districts present the largest increase in production.

MINES, MEN AND TONS.

The record of the number of mines, men and tons, also the percentages of the lump and other grades of coal for 15 years has been maintained in these reports, and is here presented for a series of 23 years:

TABLE 23—*Output of the State for 23 Years and the Mines and Men Producing the Same.*

YEAR.	NUMBER OF—				TONS OF—		PERCENTAGE OF—	
	Coun- ties.	Mines.	Men.	Tons.	Lump.	Other grades.	Lump.	Other grades.
1882.....	43	704	20,290	11,017,069	9,115,653	1,901,506	.....	.....
1883.....	47	639	28,039	12,123,456	10,030,991	2,092,465	.....	.....
1884.....	49	741	25,575	12,208,075	10,101,005	2,107,070	.....	.....
1885.....	50	778	25,946	11,834,459	9,791,874	2,402,585	.....	.....
1886.....	50	787	25,846	11,175,241	9,246,435	1,928,806	.....	.....
1887.....	49	801	26,804	12,423,066	10,278,890	2,144,176	.....	.....
1888.....	50	822	29,410	14,328,181	11,855,188	2,472,993	.....	.....
1889.....	49	854	30,076	14,017,298	11,597,963	2,419,335	.....	.....
1890.....	57	936	28,574	15,274,727	12,638,364	2,636,363	82.74	17.26
1891.....	57	918	32,951	15,660,698	12,960,224	2,700,474	82.76	17.24
1892.....	55	839	33,632	17,862,276	14,730,963	3,131,313	82.47	17.53
1893.....	56	788	35,390	19,949,564	16,112,899	3,836,665	80.77	19.23
1894.....	56	836	38,477	17,113,576	13,865,284	3,248,292	81.02	18.98
1895.....	54	874	38,630	17,735,864	14,045,962	3,689,902	79.25	20.75
1896.....	51	901	37,057	19,786,626	14,210,024	5,576,602	71.86	28.14
1897.....	50	853	33,788	20,072,758	14,672,241	5,400,517	73.10	26.90
1898.....	52	881	35,026	18,599,299	14,208,795	4,390,504	76.39	23.61
1899.....	52	889	36,991	23,434,445	17,427,598	6,006,847	74.37	25.63
1900.....	52	920	39,384	25,153,929	13,927,899	11,226,030	44.63	55.37
1901.....	53	915	44,143	26,635,319	13,321,124	13,314,195	50.01	49.99
1902.....	54	915	46,005	30,021,300	15,041,673	14,979,627	50.10	49.90
1903.....	53	933	49,814	34,955,400	15,874,509	19,080,891	45.41	54.59
1904.....	54	932	54,774	37,077,897	16,888,010	20,189,887	45.55	54.45

Here is a comprehensive account of the extent of the coal industry of the State for 23 years. The increase during these years in the *number of mines* has been 32 per cent, of employés 170 per cent, and of *tons of coal produced* 237 per cent.

The percentages of the gain or loss by years, in the number of employes, and the number of tons of coal produced for 23 years is presented in the following table:

TABLE 24—*Total Number of Men and Total Tons Produced with Percentages of Gain or Loss for Twenty-three Years*

YEAR.	Men.	Total Output, Tons.	PERCENTAGE OF MEN.		PERCENTAGE OF TONS.	
			Gain.	Loss.	Gain.	Loss.
1882.....	20,290	11,017,069	.....	.....	.....	.....
1883.....	23,939	12,123,456	17.98	.....	10.04	.....
1884.....	25,575	12,208,075	6.83	.....	.70	.....
1885.....	25,946	11,834,459	1.35	.....	.....	3.06
1886.....	25,846	11,175,241	.....	.39	.....	5.57
1887.....	26,804	12,423,066	3.71	.....	11.17	.....
1888.....	29,410	14,328,181	9.72	.....	15.34	.....
1889.....	30,076	14,017,298	2.26	.....	.....	2.17
1890.....	28,574	15,274,727	.....	4.99	8.97	.....
1891.....	32,951	15,660,698	15.32	.....	3.53	.....
1892.....	33,632	17,862,276	2.07	.....	14.06	.....
1893.....	35,390	19,949,564	5.23	.....	11.69	.....
1894.....	38,447	17,113,576	8.72	.....	.....	14.22
1895.....	38,630	17,735,864	.40	.....	3.64	.....
1896.....	37,057	19,786,626	.....	4.07	11.56	.....
1897.....	33,788	20,072,758	.....	8.82	1.45	.....
1898.....	35,026	18,599,299	3.66	.....	.....	7.34
1899.....	36,991	23,434,445	5.61	.....	26.00	.....
1900.....	39,384	25,153,929	6.47	.....	7.34	.....
1901.....	44,143	26,635,319	12.08	.....	5.89	.....
1902.....	46,005	30,021,300	4.22	.....	12.71	.....
1903.....	49,814	34,955,400	8.28	.....	16.44	.....
1904.....	54,774	37,077,897	9.96	.....	6.07	.....

The number of persons employed, in and about the mines of the State, has had an uninterrupted increase for the past seven years, while in the output of coal there has been an increase in tonnage each year for six years.

During the 23 years shown in the table only four years show a decrease in the number of employes and a decrease in tonnage five years.

The percentages of the tons of coal produced in each district is shown in the following table:

TABLE 25—*Percentage of the Tonage of Total Output of the State, Produced by Each District, for a Series of 14 Years.*

YEAR.	DISTRICTS.						
	First.	Second.	Third.	Fourth.	Fifth.	Sixth.	Seventh.
1891.....	19.69	9.20	17.84	28.27	25.00	.....	.....
1892.....	19.36	9.70	18.26	28.65	24.03	.....	.....
1893.....	17.02	10.03	17.03	28.99	26.93	.....	.....
1894.....	15.69	9.95	17.99	30.23	26.14	.....	.....
1895.....	15.42	11.25	16.65	31.65	25.03	.....	.....
1896.....	15.34	13.60	3.18	14.17	23.70	19.08	10.93
1897.....	14.64	13.64	2.87	14.53	24.95	17.73	11.64
1898.....	11.88	13.71	3.89	13.83	21.10	18.60	16.99
1899.....	15.08	14.19	3.11	14.33	20.53	18.28	14.48
1900.....	14.72	9.75	7.94	14.05	19.15	20.81	13.58
1901.....	13.40	10.40	7.45	12.22	20.33	21.76	14.44
1902.....	12.42	10.34	8.04	13.12	20.70	20.79	14.59
1903.....	10.73	9.29	7.75	13.65	20.22	22.13	16.23
1904.....	9.31	8.96	8.25	13.87	19.63	23.29	16.69

For the past nine years the fifth, sixth and seventh districts have contributed from 53 to 60 per cent of the coal produced in the State. The past year these districts reached the highest percentage.

HAULAGE IN THE MINES.

The haulage of coal in the mines of the State has been noted in these reports for the last five years. The following table presents the record for this year by districts, also for the State for the previous four years:

TABLE 26—*Haulage of Coal in the Shipping Mines of the State, by Districts, 1904.*

DISTRICT.	ELECTRICITY		CABLE.		MULE OR HORSE.		HAND.		VARIOUS.	
	No. of mines.	Tons.	No. of mines.	Tons.	No. of mines.	Tons.	No. of mines.	Tons.	No. of mines.	Tons.
First.....	.....	.....	.....	.....	32	2,736,711	4	15,489	5	*570,068
Second.....	2	586,381	4	453,715	14	1,925,733	8	70,227	.....	.....
Third.....	.....	.....	.....	.....	42	1,879,471	1	8,320	12	†819,266
Fourth.....	.....	.....	.....	.....	32	2,560,546	3	3,397	11	‡2,337,717
Fifth.....	7	1,748,716	4	691,388	40	4,577,116	1	3,550	1	§156,498
Sixth.....	.....	.....	.....	.....	76	6,107,892	.....	.....	8	*2,422,136
Seventh.....	5	996,323	1	60,178	66	5,042,226	1	6,443	.....	.....
The State..	14	3,331,420	9	1,205,281	302	24,829,705	18	107,426	37	6,305,685
1903.....	14	3,308,285	21	2,537,895	297	25,411,371	10	60,823	11	2,358,163
1902.....	10	2,258,293	15	2,626,182	288	22,036,531	7	30,329	12	1,873,415
1901.....	12	2,082,377	21	2,740,616	545	21,068,518	340	743,808	.....	.....
1900.....	7	1,331,579	27	2,424,978	512	20,410,169	374	987,570	.....	.....

†Cable and horse.

§Cable and electric.

*Cable, electric, horse and mule.

‡677,495 tons hauled by electricity.

†Cable, electric, horse, mule and dogs.

For the two years in this table—1900 and 1901—the record is given for all the mines in the State; for the other three years for shipping mines only.

Electrical power is reported as being applied for the hauling of coal in the mines this year only in the second, fifth and seventh districts. Last year both the third and fourth reported this system, one mine in the third and two in the fourth.

The number of mines using this power exclusively is the same this year as last; however, the same force is used in all the districts more or less, but the mines using and the tons hauled are not designated separately. Table 26 is supplemented by a table of percentages of shipping mines and tons hauled by the different methods for three years.

TABLE 27—Percentages of the Shipping Mines and Tons Showing Haulage for the years 1902, 1903 and 1904.

YEAR.	PERCENTAGES OF MINES USING AND TONS HAULED BY—									
	ELECTRICITY		CABLE.		MULE OR HORSE.		HAND.		VARIOUS.	
	Mines.	Tons.	Mines.	Tons.	Mines.	Tons.	Mines.	Tons.	Mines.	Tons.
1902.....	3.02	7.83	4.52	9.11	86.75	76.45	2.10	.11	3.61	6.50
1903.....	3.97	9.82	5.92	7.54	84.13	75.46	2.83	.18	3.12	7.00
1904.....	3.68	9.31	2.37	3.37	79.47	76.40	4.74	.30	9.74	17.62
Increase (+)	0.00	+.69	-57.14	-52.21	+1.68	-2.29	+80.00	+76.62	+236.36	+167.40
Decrease (—)										

Comparing this year with the last, electrical haulage in mines, and tons hauled, shows but little change; by cable the decrease in both mines and tons is quite considerable; by mule or horse there is also a decrease while in mines using various methods there is shown to be a marked increase.

The final line in this table gives the increase or decrease in the different methods for the past two years.

OUTPUT BY COUNTIES.

The number of counties in the State supplying over 500,000 tons of coal during the year are shown in the following table:

TABLE 28—Relative Rank of the Counties of the State Producing 500,000 Tons of Coal or over for a Series of Five Years.

COUNTY.	Rank.	Tonnage 1904.	Rank.	Tonnage 1903.	Rank.	Tonnage 1902.	Rank.	Tonnage 1901.	Rank.	Tonnage 1900.
Sangamon.....	1	4,516,358	1	4,388,526	1	3,672,989	1	2,919,223	1	2,519,911
St. Clair.....	2	3,418,479	2	3,134,679	2	2,578,553	2	2,518,847	2	2,253,883
Vermilion.....	3	3,114,060	3	2,893,233	3	2,558,371	4	2,003,780	3	2,030,954
Williamson.....	4	3,038,466	4	2,551,587	6	1,956,271	7	1,595,081	6	1,441,650
Madison.....	5	3,030,892	5	2,711,767	5	2,013,692	6	1,603,980	9	1,133,607
Macoupin.....	6	2,221,474	6	2,223,055	4	2,075,253	3	2,115,319	5	1,848,796
Bureau.....	7	1,832,577	8	1,778,302	8	1,732,813	8	1,549,056	7	1,338,231
La Salle.....	8	1,773,189	7	1,877,555	7	1,894,510	5	1,833,561	4	2,027,884
Grundy.....	9	1,405,158	9	1,457,935	9	1,383,336	9	1,293,092	8	1,239,883
Fulton.....	10	1,284,279	10	1,036,496	10	889,679	14	646,400	14	665,439
Perry.....	11	1,240,174	11	1,031,751	14	789,625	13	664,278	13	690,653
Marion.....	12	1,083,734	12	1,002,047	11	881,821	11	829,326	11	840,817
Christian.....	13	986,685	14	926,563	15	725,088	16	578,432	15	652

Table 28—Concluded.

COUNTIES.	Rank.	Tonnage 1904.	Rank.	Tonnage 1903.	Rank.	Tonnage 1092.	Rank.	Tonnage 1901.	Rank.	Tonnage 1900.
Peoria	14	939,737	15	920,716	13	824,270	12	710,582	12	727,737
Clinton	15	925,515	16	870,518	16	724,462	15	644,664	16	535,601
Jackson.....	16	862,641	13	972,284	12	853,056	10	911,245	10	883,311
Randolph	17	620,280	..	.....	..	.....	..	.....	..	.....
Mercer.....	18	601,508	17	648,070	17	602,722	17	563,603	17	501,065
Menard.....	19	543,763	..	.....	..	.....	..	.....	..	.....
Total—Counties and tons.....	19	33,438,959	17	30,423,084	17	25,156,511	17	22,982,499	17	21,382,041

This year two additional counties, Randolph and Menard, appear in the list, making 19 counties producing over half a million tons of coal. The output of these counties for the year represent over 90 per cent of the total tonnage of the State. Sangamon county again, and for five years, has held first place, with an output this year of over 4,500,000 tons; St. Clair, for the same period, has held second place. Five counties show an output of over 3,000,000 tons.

The 54 coal producing counties of the State are presented in the following table:

TABLE 29—Coal Producing Counties of the State, Giving Number of Districts, Mines, Men and Tons, of Shipping and Local Mines—1904.

COUNTY.	District.	ALL MINES.			SHIPPING MINES			LOCAL MINES.		
		Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.
Bond	6	1	249	176,116	1	249	176,116	.....	.....	.....
Brown	5	5	10	1,583	.....	.....	.....	5	10	1,583
Bureau.....	2	23	4,437	1,832,577	7	4,329	1,800,730	16	108	31,847
Calhoun	5	1	13	3,110	.....	.....	.....	1	13	3,110
Cass.....	3	2	10	2,780	.....	.....	.....	2	10	2,780
Christian.....	4	8	1,476	986,685	8	1,476	986,685	.....	.....	.....
Clinton	6	6	1,041	925,515	6	1,041	925,555	.....	.....	.....
Edgar	4	1	13	6,022	.....	.....	.....	1	13	6,022
Franklin	7	1	.....	4,240	1	.....	4,240	.....	.....	.....
Gulton ,.....	3	54	1,978	1,284,279	20	1,752	1,222,483	34	226	61,796
Hallatin.....	7	6	116	68,411	2	105	61,241	4	11	7,170
Greene	5	7	35	10,904	.....	.....	.....	7	35	10,904
Grundy	1	25	3,538	1,405,158	14	3,461	1,376,852	11	77	28,306

Table 29—Continued.

COUNTY.	District.	ALL MINES.			SHIPPING MINES.			LOCAL MINES.		
		Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.
Hamilton.....	7	1	3	2,000	.....	.....	.....	1	3	2,000
Hancock.....	3	6	40	12,270	1	14	8,320	5	26	3,950
Henry	2	29	364	151,887	3	142	70,759	28	223	81,128
Jackson,	7	18	1,246	862,641	9	1,213	845,716	9	33	16,925
Jefferson	7	3	55	29,967	.....	.....	.....	3	55	29,967
Jersey	5	7	22	3,405	.....	.....	.....	7	22	3,405
Johnson	7	3	14	3,050	.....	.....	.....	3	14	3,050
Kankakee	1	1	194	53,405	1	194	53,405	.....	.....	.....
Knox	2	46	296	89,992	2	86	43,060	44	210	46,912
LaSalle	1	41	3,684	1,773,189	17	3,514	1,714,722	24	170	53,467
Livingston	1	17	341	150,467	6	257	114,193	11	84	36,274
Logan	4	4	640	419,004	4	640	419,004	.....	.....	.....
Macon	4	4	286	151,334	3	181	106,198	1	105	45,136
Macoupin	5	26	3,031	2,221,474	17	2,986	2,207,902	9	45	13,572
Madison	6	35	3,412	3,030,892	16	3,277	2,986,967	19	135	43,925
Marion.....	6	6	1,282	1,083,734	6	1,282	1,083,734	.....	.....	.....
Marshall	2	12	958	476,239	3	935	470,203	9	23	6,036
McDonough ...	3	64	249	60,574	2	67	23,854	62	182	36,720
McLean	4	4	417	218,140	4	417	218,140	.....	.....	.....
Menard	3	15	746	543,763	8	704	526,099	7	42	17,664
Mercer.....	2	16	942	601,508	8	892	584,230	8	50	17,278
Montgomery ...	5	5	605	494,501	5	605	494,501	.....	.....	.....
Morgan	5	2	14	4,300	.....	.....	.....	2	14	4,300
Peoria	3	69	1,371	939,737	19	1,084	799,821	50	287	139,916
Perry	7	20	1,874	1,240,174	19	1,872	1,240,024	1	2	150
Randolph.....	7	13	844	620,280	11	836	612,071	2	8	8,209
Rock Island	2	14	159	91,793	3	57	28,738	11	102	63,055
Saline.....	7	17	378	299,720	5	321	294,571	12	57	5,149
Sangamon	5	34	5,730	4,516,358	31	5,670	4,474,865	3	60	41,493
Schuyler	3	15	68	18,400	.....	.....	.....	15	68	18,400
Scott	5	15	81	24,652	.....	.....	.....	15	81	24,652
Shelby	4	11	297	132,413	2	211	119,192	9	86	13,221
Stark	2	16	137	61,040	2	67	38,316	14	70	22,724
St. Clair	6	69	3,681	3,418,469	55	3,584	3,357,696	14	97	60,773
Tazewell	3	13	346	196,611	5	228	126,490	8	118	70,121

Table 29—Concluded.

COUNTY.	District.	ALL MINES.			SHIPPING MINES.			LOCAL MINES.		
		Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.
Vermilion	4	63	3,929	3,114,060	24	3,627	2,937,313	39	302	176,747
Warren	2	15	68	17,454	.....	.....	.....	15	68	17,454
Washington	7	1	33	19,930	1	33	19,930	.....	.....	.....
Will	1	4	281	68,096	3	272	63,096	1	9	5,000
Williamson	7	37	3,504	3,038,466	25	3,468	3,027,377	12	36	11,089
Woodford	4	1	235	115,128	1	235	115,128	.....	.....	.....
54 counties..	.....	932	54,774	37,077,897	372	51,125	35,779,517	552	3,390	1,298,380

This table brings into view the relative importance of the coal producing counties of the State, giving the number of mines, men and tons in each county; also the same information concerning the shipping and local mines.

Sangamon county gave employment to 5,730 men, Bureau to 4,437, while Vermilion, LaSalle, St Clair, Grundy, Williamson, Madison and Macoupin each gave employment to over 3,000 men.

These nine counties gave employment to 34,946 men, or 64 per cent of all employes in and around the mines of the State.

Respecting the coal produced, these nine counties show an aggregate of 24,350,643 tons, or 66 per cent of the tonnage of the State.

DISPOSITION OF THE OUTPUT.

The distribution of the coal tonnage of the State for the year is shown in the following table, by districts:

TABLE 30—Disposition of the Output of Shipping Mines by Districts. Also Local Mines.

DISTRICT.	Total output of all grades—Tons.	Tons shipped from mines.	Tons supplied to locomotives at mines.	Tons sold to local trade.	Tons used and wasted at the mines
First	3,322,268	2,731,845	170,746	178,025	241,652
Second	3,036,056	2,768,018	52,361	92,730	122,947
Third	2,707,067	2,518,158	29,920	73,518	85,471
Fourth	4,901,660	4,204,553	202,776	300,883	193,448
Fifth	7,177,268	6,389,700	185,141	338,686	263,741
Sixth	8,530,028	7,678,710	307,284	206,507	337,527
Seventh	6,105,170	5,487,276	239,103	169,783	209,008
Shipping mines.....	35,779,517	31,778,260	1,187,331	1,360,132	1,453,794
Local mines.....	1,298,380	.....	35,768	1,161,480	101,132
The State.....	37,077,897	31,778,260	1,223,099	2,521,612	1,554,926

For the purpose of comparison, the following table furnishes a more favorable exhibition:

TABLE 31—*Percentages of the Output of Shipping and Local Mines, also Percentages of the Distribution, by Districts, 1904.*

DISTRICT.	PERCENTAGES OF—				
	Total output.	Tons shipped.	Tons to locomotives	Tons sold to local trade.	Tons consumed or wasted at the mines.
First	9.31	82.23	5.14	5.36	7.27
Second	8.51	91.17	1.73	3.05	4.05
Third	7.58	93.02	1.10	2.72	3.16
Fourth.....	13.73	85.78	4.14	6.14	3.94
Fifth.....	20.11	89.03	2.58	4.72	3.67
Sixth	23.87	90.02	3.60	2.42	3.96
Seventh	16.89	89.88	3.92	2.78	3.42
Shipping mines.....	100.00	88.82	3.32	3.80	4.06
Local mines	100.00	.....	2.75	89.46	7.79

Directing attention to the tons shipped from the mines in the several districts, compared with last year, it is found that there was a slight falling off in all the districts, excepting the fifth and sixth, and these show a very small increase. A comparison of the percentages of the disposal of the output of the State for five years is presented in the following table:

TABLE 32—*Total Output of the Shipping Mines of the State, also Percentages of the Distribution for Five Years.*

SHIPPING MINES.

YEAR.	PERCENTAGES OF—				
	Total output.	Tons shipped.	Tons supplied to locomotives	Tons sold to local trade.	Tons consumed or wasted at the mines.
1900	24,056,996	87.33	3.42	5.12	4.13
1901	25,526,816	88.34	3.46	4.12	4.08
1902	28,824,750	89.07	3.30	3.74	3.89
1903	33,676,537	89.33	3.27	3.59	3.81
1904	35,779,517	88.82	3.32	3.80	4.06

Table 32—Concluded.

LOCAL MINES.

1900	1,096,933	.....	5.66	85.57	8.77
1901	1,108,503	.....	5.84	86.62	7.54
1902	1,196,550	.....	1.54	89.05	9.41
1903	1,278,863	.....	1.29	86.86	11.85
1904	1,298,380	.....	2.75	89.46	7.79

Observing the shipping mines it will be seen that, for the past three years, 89 per cent of the coal produced by this class of mines has been loaded on cars at the mines for shipment, while the other 11 per cent has been quite uniformly divided to locomotives at the mines, sold to local trade or consumed or wasted at the mines. For the local mines there is shown an increase in tons supplied to locomotives and furnished to local trade, with a decrease from last year in tons wasted at the mines.

DISPOSITION BY DISTRICTS AND COUNTIES.

The following table presents the efficiency of each coal producing county, arranged by districts, and the manner of the disposal of the output. The second, third and sixth districts show the largest percentages shipped from the mines. As to the local mines the largest output is shown in the second, third and fourth districts; these mines in the fifth and seventh districts are the only ones reported as supplying coal to locomotives.

TABLE 33—Disposition of the Output of Shipping Mines by Counties and Districts.

FIRST DISTRICT.

COUNTY.	No. of mines.	Total tons.	Tons shipped.	Tons supplied to locomotives at the mines.	Tons sold to local trade.	Tons consumed or wasted at the mines.
Grundy.....	14	1,376,852	1,297,907	.....	25,748	53,197
Kankakee.....	1	53,405	15,068	31,659	1,825	4,853
LaSalle	17	1,714,722	1,227,211	129,597	131,235	176,679
Livingston.....	6	114,193	88,337	9,490	11,338	5,028
Will.....	3	63,096	53,322	.....	7,879	1,895
The district.....	41	3,322,268	2,731,845	170,746	178,025	241,652
Percentages .....	.....	100.00	82.23	5.14	5.36	7.27
Local mines.....	47	128,047	.....	.....	85,595	42,452

Table 33—Continued.

SECOND DISTRICT.

COUNTY.	No. of mines.	Total tons.	Tons shipped.	Tons supplied to locomotives at the mines.	Tons sold to local trade.	Tons con- sumed or wasted at the mines.
Bureau	7	1,800,730	1,669,526	19,634	39,162	72,408
Henry	3	70,759	57,537	.....	11,022	2,200
Knox	2	43,080	38,164	876	3,040	1,000
Marshall	3	470,203	396,068	30,718	18,904	24,513
Mercer	8	584,230	549,196	1,133	13,306	20,593
Rock Island	3	28,738	25,227	.....	2,230	1,281
Stark	2	38,316	32,300	.....	5,066	950
The district	28	3,036,056	2,768,018	52,361	92,730	122,947
Percentages .....	.....	100.00	91.17	1.73	3.05	4.05
Local mines	143	286,434	.....	.....	279,878	6,556

THIRD DISTRICT.

COUNTY.	No. of mines.	Total tons.	Tons shipped.	Tons supplied to locomotives at the mines.	Tons sold to local trade.	Tons con- sumed or wasted at the mines.
Fulton	20	1,222,483	1,148,091	26,663	11,420	36,307
Hancock	1	8,320	8,320	.....	.....	.....
McDonough	2	23,854	23,629	.....	.....	225
Menard	8	526,099	474,409	3,255	24,674	23,761
Peoria	19	699,821	763,406	.....	14,198	22,217
Tazewell	5	126,490	100,303	.....	23,226	2,961
The district	55	2,707,067	2,518,158	29,920	73,518	85,471
Percentages .....	.....	100.00	93.02	1.10	2.72	3.16
Local mines	183	351,347	.....	.....	349,460	1,887

Table 33—Continued.

FOURTH DISTRICT.

COUNTY.	No. of mines.	Total tons.	Tons shipped.	Tons supplied to locomotives at the mines.	Tons sold to local trade.	Tons con- sumed or wasted at the mines.
Christian.....	8	986,685	786,758	80,037	60,403	59,487
Logan	4	419,004	328,247	23,416	40,275	27,066
Macon	3	106,198	52,915	.....	50,783	2,500
McLean	4	218,140	67,782	43,020	78,689	28,649
Shelby	2	119,192	74,654	20,724	15,592	8,222
Vermilion	24	2,937,313	2,801,075	29,282	46,682	60,274
Woodford	1	115,128	93,122	6,297	8,459	7,250
The district	46	4,901,660	4,204,553	202,776	300,883	193,448
Percentages .....	.....	100.00	85.78	4.14	6.14	3.94
Local mines	50	241,126	.....	.....	210,728	30,398

FIFTH DISTRICT.

COUNTY.	No. of mines.	Total tons.	Tons shipped.	Tons supplied to locomotives at the mines.	Tons sold to local trade.	Tons con- sumed or wasted at the mines.
Macoupin.....	17	2,207,902	1,986,907	73,516	59,003	88,476
Montgomery	5	494,501	440,453	2,200	41,462	10,386
Sangamon	31	4,474,865	3,962,340	109,425	238,221	164,879
The district	53	7,177,268	6,389,700	185,141	338,686	263,741
Percentages .....	.....	100.00	89.03	2.58	4.72	3.67
Local mines	49	103,019	.....	12,396	84,868	57,55

Table 33—Concluded.

SIXTH DISTRICT.

COUNTY.	No. of mines.	Total tons.	Tons shipped.	Tons supplied to locomotives at the mines.	Tons sold to local trade.	Tons consumed or wasted at the mines.
Bond.....	1	176,116	166,387	.....	2,836	6,893
Clinton	6	925,515	812,754	36,000	28,394	48,367
Madison	16	2,986,967	2,805,105	38,899	42,721	100,242
Marion	6	1,083,734	817,046	172,114	46,507	48,067
St. Clair.....	55	3,357,696	3,077,418	60,271	86,049	133,958
The district.....	84	8,530,028	7,678,710	307,284	206,507	337,527
Percentages.....	.....	100.00	90.02	3.60	2.42	3.96
Local mines.....	33	104,698	.....	.....	99,830	4,868

SEVENTH DISTRICT.

COUNTY.	No. of mines.	Total tons.	Tons shipped.	Tons supplied to locomotives at the mines.	Tons sold to local trade.	Tons consumed or wasted at the mines.
Franklin.....	1	4,240	2,845	50	20	1,325
Gallatin	2	61,241	42,487	3,835	9,707	5,213
Jackson.....	9	845,716	721,406	69,912	9,731	44,667
Perry.....	17	1,240,024	1,051,838	134,191	25,866	28,129
Randolph	11	612,071	577,108	3,748	14,119	17,096
Saline.....	5	294,571	266,978	20,091	3,042	4,400
Washington	1	19,930	3,514	3,438	9,519	3,459
Williamson.....	25	3,027,377	2,821,100	3,838	97,779	104,400
The district.....	73	6,105,170	5,487,276	239,103	169,783	209,008
Percentages .....	.....	100.00	89.88	3.92	2.78	3.42
Local mines.....	47	83,709	.....	23,372	51,121	9,216

The foregoing is supplemented by a table of the railroads of the State, with the tonnage that each county contributed to each road for shipment from the mines, and the tons supplied to locomotives from the mine chutes; also, the percentage contributed to each.

TABLE 34—*Railroads which Have Hauled the Coal Output of Shipping Mines of the State and the Tonnage Contributed to Each Road, by Counties—1904.*

RAILROADS AND COUNTIES.	Number mines.	TONS RECEIVED BY EACH ROAD FOR—		PERCENTAGE.	
		Shipment.	Locomotives.	Shipped.	Supplied to locomotives.
Illinois Central—20 counties.....	95	7,529,575	467,901	100.00	100.00
Williamson	12	1,838,835	2,551	24.30	0.55
St. Clair.....	20	930,270	12,766	12.48	2.73
Marion.....	5	807,631	172,114	10.84	36.10
Perry.....	15	789,480	40,247	10.49	8.60
Sangamon.. ..	7	615,529	.....	8.26	.....
Jackson.....	5	625,187	69,912	7.74	14.94
Madison	3	543,188	4,349	7.29	.93
Christian	5	404,960	9,217	5.43	1.97
La Salle.....	4	343,076	75,738	4.60	16.19
Macoupin.....	1	184,860	28,797	2.48	6.16
Randolph	4	139,442	.....	1.87	.....
Marshall.....	1	98,732	.....	1.32	.....
Logan.....	4	87,453	23,416	1.17	5.00
Shelby	1	71,654	20,724	.96	4.43
McLean.....	3	34,782	8,020	.47	1.71
Kankakee.....	1	10,183	.....	.14	.....
Franklin	1	2,845	50	.04	.01
Livingston.....	1	799	.....	.01	.....
Macon	1	524	.....	.007	.....
Saline.....	1	145	.....	.003	.....
Chicago & Eastern Illinois—3 counties...	23	3,334,908	2,661	100.00	100.00
Vermilion	14	2,413,439	1,002	72.37	37.65
Williamson.....	8	921,469	1,287	27.63	48.37
Jefferson.....	1	.....	372	.....	13.98
Chicago & Alton—9 counties.....	39	2,604,826	1,639	100.00	100.00
Sangamon.....	14	1,445,133	.....	55.48	.....
Macoupin.....	7	652,572	1,639	25.05	100.00
Logan.....	2	240,794	.....	9.24	.....
Menard	3	172,974	.....	6.64	.....
Will	3	53,322	.....	2.05	.....
Grundy.....	4	17,740	.....	.68	.....
LaSalle	3	10,818	.....	.42	.....
Marshall.....	1	6,973	.....	.27	.....
McLean.....	2	4,500	.....	.17	.....
Chicago, Burl. & Quincy—14 counties....	41	2,399,057	35,646	100.00	100.00
Fulton.....	8	700,107	11,400	29.19	31.98
LaSalle	8	465,969	.....	19.42	.....
Macoupin	4	338,182	6,986	14.10	19.60
Mercer.....	4	331,277	841	13.81	2.36
Bureau.....	1	198,758	1,823	8.28	5.11
Peoria	6	172,257	.....	7.18	.....
Bond.....	1	60,000	.....	2.50	.....
Henry.....	3	52,258	.....	2.18	.....
Stark	2	32,300	.....	1.36	.....
McDonough	2	23,629	.....	.98	.....
Knox.....	1	16,000	.....	.66	.....
Hancock.....	1	8,320	.....	.34	.....
Scott.....	1	.....	12,396	.....	34.78
Montgomery.....	1	.....	2,200	.....	6.17

Table 34—Continued.

Number.	RAILROADS AND COUNTIES.	Number mines.	TONS RECEIVED BY EACH ROAD FOR—		PERCENTAG	
			Shipment.	Locomo- tives.	Shipped.	Sup- to loc tiv
5	Wabash—10 counties.....	30	2,380,999	96,638	100.00	
	Sangamon.....	9	1,009,321	28,618	42.39	
	Macoupin.....	3	680,795	28,030	28.59	
	Christian.....	2	275,825	41,990	11.58	
	Vermilion.....	2	218,912		9.19	.....
	Montgomery.....	2	78,496		3.30	.....
	Madison.....	2	62,274		2.62	.....
	Macon.....	1	32,391		1.36	.....
	LaSalle.....	4	13,731		.58	.....
	Livingston.....	2	8,075		.34	.....
	Kankakee.....	1	1,179		.05	.....
6	Elgin, Joliet & Eastern—1 county.....	14	1,263,370		100.00	.....
	Grundy.....	14	1,263,370		100.00	.....
7	Baltimore & Ohio S. W.—6 counties.....	19	1,256,746	48,582	100.00	
	Clinton.....	4	592,378	36,000	46.13	
	Sangamon.....	4	302,453	11,052	24.07	
	St. Clair.....	5	301,487		23.99	.....
	Christian.....	3	50,913	1,530	4.05	.....
	Marion.....	2	9,415		.75	.....
	Shelby.....	1	100		.01	.....
8	Chicago & Northwestern—1 county.....	6	1,219,520	17,534	100.00	
	Bureau.....	6	1,219,520	17,534	100.00	
9	Chicago, Peoria & St. Louis—4 counties..	15	1,162,485	77,878	100.00	
	Madison.....	3	540,325	6,990	46.48	
	Menard.....	5	301,435	3,255	25.93	
	Sangamon.....	6	295,642	67,633	25.43	
	Macoupin.....	1	25,083		2.16	.....
10	St. Louis, Troy & Eastern—1 county.....	3	1,123,039	2,553	100.00	
	Madison.....	3	1,123,039	2,553	100.00	
11	Cleveland, Cin., Chi. & St. L.—8 counties	21	858,191	85,735	100.00	
	Montgomery.....	2	273,663		31.89	.....
	Saline.....	5	265,233	29,091	30.91	
	Vermilion.....	7	159,224	23,280	18.55	
	Macoupin.....	2	79,511	10,064	9.26	
	Christian.....	2	55,060	27,300	6.42	
	Tazewell.....	1	17,600		3.05	.....
	McLean.....	1	5,000	5,000	.58	.....
	Shelby.....	1	2,900		.34	.....
12	Louisville & Nashville—5 counties.....	18	778,523	61,056	100.00	1
	St. Clair.....	13	730,922	39,044	93.89	
	Gallatin.....	2	42,487	3,835	5.46	
	Washington.....	1	3,514	3,438	.45	
	Saline.....	1	1,600		.20	.....
	Jefferson.....	1		14,739		
13	Chi. Rock Island & Pac.—6 counties.....	14	769,312	53,193	100.00	10
	LaSalle.....	5	305,915	52,901	39.64	
	Bureau.....	1	231,714		30.12	.....
	Mercer.....	4	217,919	292	28.32	
	Marshall.....	1	7,019		.91	.....
	Henry.....	1	5,279		.69	.....
	Rock Island.....	2	2,466		.32	.....

Table 34.—Continued.

ROADS AND COUNTIES.	Number mines.	TONS RECEIVED BY EACH ROAD FOR—		PERCENTAGE.	
		Shipment.	Locomotives.	Shipped.	Supplied to locomotives.
ailroad—3 counties.....	15	767,195	16,722	100.00	100.00
.....	12	546,819	8,461	71.28	50.60
.....	2	220,376	.....	28.72	.....
on.....	1	.....	8,261	.....	49.40
Ohio—4 counties.....	10	578,893	89,744	100.00	100.00
ph.....	4	262,990	.....	45.43	.....
.....	2	207,730	89,744	35.88	100.90
.....	3	96,173	.....	16.62	.....
.....	1	12,000	.....	2.07	.....
ine—1 county.....	5	536,279	25,007	100.00	100.00
l.....	5	536,279	25,007	100.00	100.00
al—2 counties.....	7	381,475	.....	100.00	.....
.....	3	208,366	.....	54.62	.....
.....	4	173,109	.....	45.38	.....
oria & Western—4 counties....	12	381,072	24,755	100.00	100.00
.....	5	196,688	15,265	51.61	61.66
.....	5	169,314	.....	44.43	.....
ton.....	1	11,570	9,490	3.04	38.34
l.....	1	3,500	.....	.92	.....
opeka & Santa Fé—5 counties	13	378,322	34,255	100.00	100.00
l.....	1	162,144	27,958	42.86	81.62
.....	4	104,616	.....	27.65	.....
ord.....	1	93,122	6,297	24.62	18.38
.....	5	16,797	.....	4.44	.....
ton.....	2	1,643	.....	.43	.....
& O'Fallon Electric—1 county	2	324,694	.....	100.00	.....
.....	2	324,694	.....	100.00	.....
ekin Union—2 counties.....	6	309,046	.....	100.00	.....
.....	4	248,726	.....	80.48	.....
ll.....	2	60,322	.....	19.52	.....
ilroad—1 county.....	1	235,825	2,122	100.00	100.00
on.....	1	235,825	2,122	100.00	100.00
Bellville Electric—1 county..	3	231,226	.....	100.00	.....
.....	3	231,226	.....	100.00	.....
Louis & Western—2 counties.	2	194,681	.....	100.00	.....
.....	1	106,387	.....	54.65	.....
omery.....	1	88,294	.....	45.35	.....
thern—1 county.....	6	174,676	3,748	100.00	100.00
ph.....	6	174,676	3,748	100.00	100.00
rquette & Northern—1 county	1	121,200	2,760	100.00	100.00
l.....	1	121,200	2,760	100.00	100.00
inois & Iowa—3 counties.....	5	102,514	31,659	100.00	100.00
ton.....	1	66,250	.....	64.62	.....
.....	3	32,558	.....	31.76	.....
ee.....	1	3,706	31,659	3.62	100.00

Table 34—Concluded.

Number.	RAILROADS AND COUNTIES.	Number mines	TONS RECEIVED BY EACH ROAD FOR—		PERCENTAGE.	
			Shipment.	Locomo- tives.	Shipped.	Supplied to locomo- tives.
28	Cin., Hamilton & Dayton—2 counties	4	78,437	.....	100.00	.....
	Sangamon.....	3	58,437	.....	74.50	.....
	Macon	1	20,000	.....	25.50	.....
29	Wabash, Chester & Western—1 county...	2	54,628	4,200	100.00	100.00
	Perry	2	54,628	4,200	100.00	100.00
30	St. Louis, Iron Mt. & South'n—2 counties	3	48,617	.....	100.00	.....
	Williamson.....	2	48,571	.....	99.91	.....
	Jackson.....	1	46	.....	.09	.....
31	Fulton County Narrow Gauge—1 county	4	42,930	.....	100.00	.....
	Fulton	4	42,930	.....	100.00	.....
32	Lake Erie & Western—2 counties.....	3	42,381	30,000	100.00	100.00
	Tazewell	2	22,381	.....	52.81	.....
	McLean	1	20,000	30,000	47.19	100.00
33	Macoupin County Railroad—1 county ...	2	25,904	.....	100.00	.....
	Macoupin	2	25,904	.....	100.00	.....
34	Davenport, R. I. & Northw'n—1 county..	1	22,761	.....	100.00	.....
	Rock Island.....	1	22,761	.....	100.00	.....
35	Galesburg & Great Eastern—1 county	1	22,164	876	100.00	100.00
	Knox	1	22,164	876	100.00	100.00
36	Chicago, Milwaukee & St. Paul—1 county	1	19,534	277	100.00	100.00
	Bureau.....	1	19,534	277	100.00	100.00
37	Coal Belt Electric—1 county	4	12,225	.....	100.00	.....
	Williamson	4	12,225	.....	100.00	.....
38	Illinois Traction Co. Electric—1 county..	1	9,500	.....	100.00	.....
	Vermilion	1	9,500	.....	100.00	.....
39	Chicago, Lake Shore & Eastern—1 county	1	.....	5,000	.....	100.00
	Vermilion	1	.....	5,000	.....	100.00
40	LaSalle & Bureau Co. R. R.—1 county....	1	.....	958	.....	100.00
	LaSalle	1	.....	958	.....	100.00
	Total tons hauled and supplied to locomotives by 40 railroads.....	.....	31,776,732	1,223,099	.....	.....
	Shipped by water Ill. and Mich. canal....	.....	1,528	.....	.....	.....
	Total State .....	.....	31,778,260	1,223,099	.....	.....

A better reading of the achievement of these 40 railroads in handling the coal tonnage of the mines of the State is presented in a condensed form in the table following.

The aggregate quantity of coal transported from the mines and taken by locomotives from the chutes of the mines was 33,001,359 tons, or 89 per cent of the total tonnage of the State, and is 92 per cent of the output of the shipping mines.

The Illinois Central railroad traverses 20 counties of the State, reaching 95 mines and taking on board of its cars 7,529,575 tons; these comprise 25 per cent of the mines shipping coal, 50 per cent of the counties supplying the product and 24 per cent of the total tons shipped.

TABLE 35—*Illinois Coal Delivered to Illinois Railroads at the Mines for Shipment and for use on Locomotives—1904.*

Number.	RAILROADS.	NUMBER OF—		TONS DELIVERED TO EACH RAILROAD FOR—		Total tons.
		Coun- ties.	Mines.	Ship- ment.	Loco- mo- tives.	
1	Illinois Central.....	20	95	7,529,575	467,901	7,997,476
2	Chicago & Eastern Illinois.....	3	23	3,334,908	2,661	3,337,569
3	Chicago & Alton.....	9	39	2,604,826	1,639	2,606,465
4	Chicago, Burlington & Quincy.....	14	41	2,399,057	35,646	2,434,703
5	Wabash.....	10	30	2,380,999	96,638	2,477,637
6	Elgin, Joliet & Eastern.....	1	4	1,263,370	.....	1,263,370
7	Baltimore & Ohio Southwestern.....	6	19	1,256,746	48,582	1,305,328
8	Chicago & Northwestern.....	1	6	1,219,520	17,534	1,237,054
9	Chicago, Peoria & St. Louis.....	4	15	1,162,485	77,878	1,240,363
10	St. Louis, Troy & Eastern.....	1	3	1,123,039	2,553	1,125,592
11	Cleveland, Cincinnati, Chicago & St. Louis....	8	21	858,191	85,735	943,926
12	Louisville & Nashville.....	5	18	778,523	61,056	839,579
13	Chicago, Rock Island & Pacific.....	6	14	769,312	53,193	822,505
14	Southern Railroad.....	3	15	767,195	16,722	783,917
15	Mobile & Ohio.....	4	10	578,893	89,744	668,637
16	Vandalia Line.....	1	5	536,279	25,007	561,286
17	Iowa Central.....	2	7	381,475	.....	381,475
18	Toledo, Peoria & Western.....	4	12	381,072	24,755	405,827
19	Atchison, Topeka & Sante Fe.....	5	13	378,322	34,255	412,577
20	East St. Louis & O'Fallon Electric.....	1	2	324,694	.....	324,694
21	Peoria & Pekin Union.....	2	6	309,048	.....	309,048
22	Pawnee Railroad.....	1	1	235,825	2,122	237,947
23	St. Louis & Belleville Electric.....	1	3	231,226	.....	231,226
24	Toledo, St. Louis & Western.....	2	2	194,681	.....	194,681
25	Illinois Southern.....	1	6	174,676	3,748	178,424

Table 35—Concluded.

Number.	RAILROADS.	NUMBER OF—		TONS DELIVERED TO EACH RAILROAD FOR—		Total tons.
		Coun- ties.	Mines.	Ship- ment.	Loco- mo- tives.	
26	Toluca, Marquette & Northern.....	1	1	121,200	2,760	123,960
27	Indiana, Illinois & Iowa.....	3	5	102,514	31,659	134,173
28	Cincinnati, Hamilton & Dayton.....	2	4	78,437	.....	78,437
29	Wabash, Chester & Western.....	1	2	54,628	4,200	58,828
30	St. Louis, Iron Mountain & Southern.....	2	3	48,617	.....	48,617
31	Fulton County Narrow Gauge.....	1	4	42,930	.....	42,930
32	Lake Erie & Western.....	2	3	42,381	30,000	72,381
33	Macoupin County Railroad.....	1	2	25,904	.....	25,904
34	Davenport, Rock Island & Northwestern.....	1	1	22,761	.....	22,761
35	Galesburg & Great Eastern.....	1	1	22,164	876	23,040
36	Chicago, Milwaukee & St. Paul.....	1	1	19,534	277	19,811
37	Coal Belt Electric.....	1	4	12,225	.....	12,225
38	Illinois Traction Co., Electric.....	1	1	9,500	.....	9,500
39	Chicago Lake Shore & Eastern.....	1	1	.....	5,000	5,000
40	LaSalle & Bureau County Railroad.....	1	1	.....	958	958
Total, 40 railroads.....		.....	.....	31,776,732	1,223,099	32,999,831
By water, Illinois & Michigan Canal.....		.....	.....	1,528	.....	1,528
Total, State.....		.....	.....	31,778,260	1,223,099	33,001,359

The counties yielding the coal and the number of railroads intersecting each, taking up the product for transportation is presented in the following table:

ABLE 36—Counties which have Produced the Commercial Coal of the State and the Tonnage Delivered to the Several Railroads in each for Transportation.

COUNTIES AND RAILROADS.	Number of railroads.	Number of mines.	Tons delivered to each railroad.	Total tons shipped and per cent to each road.
Sangamon.....	7	44	.....	3,962,340
Chicago & Alton.....	14	1,445,133	36.47
Wabash.....	9	1,009,321	25.47
Illinois Central.....	7	615,529	15.54
Baltimore & Ohio Southwestern.....	4	302,453	7.63
Chicago, Peoria & St. Louis.....	6	295,642	7.46
Pawnee Railroad.....	1	235,825	5.95
Cincinnati, Hamilton & Dayton.....	3	58,437	1.48
St. Clair.....	7	56	.....	2,077,418
Illinois Central.....	20	930,270	30.23
Louisville & Nashville.....	13	730,922	23.75
Southern Railroad.....	12	546,819	17.77
East St. Louis & O'Fallon Electric.....	2	324,694	10.55
Baltimore & Ohio Southwestern.....	5	301,487	9.80
St. Louis & Belleville Electric.....	3	231,226	7.51
Mobile & Ohio.....	1	12,000	.39
Williamson.....	4	26	.....	2,821,100
Illinois Central.....	12	1,838,835	65.18
Chicago & Eastern Illinois.....	8	921,469	32.67
St. Louis, Iron Mountain & Southern.....	2	48,571	1.72
Coal Belt Electric.....	4	12,225	.43
Madison.....	5	16	.....	2,805,105
St. Louis, Troy & Eastern.....	3	1,123,039	40.04
Illinois Central.....	3	543,188	19.36
Chicago, Peoria & St. Louis.....	3	540,325	19.26
Vandalia Line.....	5	536,279	19.12
Wabash.....	2	62,274	2.22
Vermilion.....	4	25	.....	2,801,075
Chicago & Eastern Illinois.....	14	2,413,439	86.16
Wabash.....	2	218,912	7.82
Cleveland, Cincinnati, Chicago & St. Louis.....	7	159,224	5.68
Illinois Traction Co. Electric.....	1	9,500	.34
Macoupin.....	7	22	.....	1,986,907
Wabash.....	5	680,795	34.27
Chicago & Alton.....	7	652,572	32.85
Chicago, Burlington & Quincy.....	4	338,182	17.02
Illinois Central.....	1	184,860	9.30
Cleveland, Cincinnati, Chicago & St. Louis.....	2	79,511	4.00
Macoupin County Railroad.....	2	25,904	1.30
Chicago, Peoria & St. Louis.....	1	25,083	1.26
Bureau.....	4	9	.....	1,669,526
Chicago & Northwestern.....	6	1,219,520	73.05
Chicago, Rock Island & Pacific.....	1	231,714	13.88
Chicago, Burlington & Quincy.....	1	198,758	11.90
Chicago, Milwaukee & St. Paul.....	1	19,534	1.17
Grundy.....	3	23	.....	1,297,907
Elgin, Joliet & Eastern.....	14	1,263,370	97.34
Chicago & Alton.....	4	17,740	1.37
Atchison, Topeka & Santa Fé.....	5	16,797	1.29

Table 36—Continued.

Number.	COUNTIES AND RAILROADS.	Number of railroads.	Number of mines.	Tons delivered to each railroad.	Total tons shipped and per cent to each road
9	LaSalle	7	31	.....	1,275,683
	Chicago, Burlington & Quincy.....		8	463,969	36.53
	Illinois Central.....		4	343,076	26.89
	Chicago, Rock Island & Pacific.....		5	304,915	23.90
	Atchison, Topeka & Santa Fé.....		4	104,616	8.20
	Indiana, Illinois & Iowa.....		3	32,558	2.55
	Wabash		4	13,731	1.06
	Chicago & Alton.....		3	10,818	.85
10	Fulton.....	4	20	.....	1,148,091
	Chicago, Burlington & Quincy.....		8	700,107	60.98
	Iowa Central.....		3	208,366	18.15
	Toledo, Peoria & Western.....		5	196,688	17.13
	Fulton County Narrow Gauge.....		4	42,930	3.74
11	Perry	3	19	.....	1,051,838
	Illinois Cenaral.....		15	789,480	75.06
	Mobile & Ohio.....		2	207,730	19.75
	Wabash, Chester & Western		2	54,628	5.19
12	Marion	2	7	.....	817,046
	Illinois Central		5	807,631	98.85
	Baltimore & Ohio Southwestern.....		2	9,415	1.15
13	Clinton	2	6	.....	812,754
	Baltimore & Ohio Southwestern.....		4	592,378	72.89
	Southern Railroad.....		2	220,376	27.11
14	Christian.....	4	12	.....	786,758
	Illinois Central		5	404,960	51.47
	Wabash.....		2	275,825	35.06
	Cleveland, Cincinnati, Chicago & St. Louis.....		2	55,060	7.00
	Baltimore & Ohio Southwestern.....		3	50,913	6.47
15	Peoria	4	19	.....	763,406
	Peoria & Pekin Union.....		4	248,726	32.58
	Iowa Central.....		4	173,109	22.68
	Chicago, Burlington & Quincy		6	172,257	22.56
	Toledo, Peoria & Western.....		5	169,314	22.18
16	Jackson	3	9	.....	721,406
	Illinois Central		5	625,187	86.66
	Mobile & Ohio		3	96,173	13.33
	St. Louis, Iron Mountain & Southern		1	46	.01
17	Randolph	3	14	.....	577,108
	Mobile & Ohio		4	262,990	45.57
	Illinois Southern		6	174,676	30.29
	Illinois Central		4	139,442	24.16
18	Mercer	2	8	.....	549,196
	Chicago, Burlington & Quincy		4	331,277	60.32
	Chicago, Rock Island & Pacific		4	217,919	39.68
19	Menard	2	8	.....	474,409
	Chicago, Peoria & St. Louis.....		5	301,435	63.54
	Chicago & Alton		3	172,974	36.46

Table 36—Continued.

Number.	COUNTIES AND RAILROADS.	Number of railroads.	Number of mines.	Tons delivered to each railroad.	Total tons shipped and per cent to each road.
20	Montgomery	3	5	.....	440.453
	Cleveland, Cincinnati, Chicago & St. Louis		2	273,663	62.13
	Toledo, St. Louis & Western		1	88,294	20.05
	Wabash		2	78,496	17.82
21	Marshall	5	5	.....	396.068
	Atchison, Topeka & Santa Fé		1	162,148	40.94
	Toluca, Marquette & Northern		1	121,200	30.60
	Illinois Central		1	98,732	24.93
	Chicago, Rock Island & Pacific		1	7,019	1.77
	Chicago & Alton		1	6,973	1.76
22	Logan	2	6	.....	328.247
	Chicago & Alton		2	240,794	73.36
	Illinois Central		4	87,453	26.64
23	Saline	3	7	.....	266.978
	Cleveland, Cincinnati, Chicago & St. Louis		5	265,233	99.35
	Louisville & Nashville		1	1,600	.60
	Illinois Central		1	,245	.05
24	Bond	2	2	.....	166.387
	Toledo, St. Louis & Western		1	106,386	63.94
	Chicago, Burlington & Quincy		1	60,000	36.06
25	Tazewell	3	5	.....	100.303
	Peoria & Pekin Union		2	60,322	60.14
	Lake Erie & Western		2	22,381	22.31
	Cleveland, Cincinnati, Chicago & St. Louis		1	17,600	17.55
26	Woodford	1	1	.....	93.122
	Atchison, Topeka & Santa Fé		1	93,122	100.00
27	Livingston	5	7	.....	88.337
	Indiana, Illinois & Iowa		1	66,250	75.00
	Toledo, Peoria & Western		1	11,570	13.10
	Wabash		2	8,075	9.14
	Atchison, Topeka & Santa Fé		2	1,643	1.86
	Illinois Central		1	,799	.90
28	Shelby	3	3	.....	74.654
	Illinois Central		1	71,654	95.98
	Cleveland, Cincinnati, Chicago & St. Louis		1	2,900	3.89
	Baltimore & Ohio Southwestern		1	,100	.13
29	McLean	5	8	.....	67.782
	Illinois Central		3	34,782	51.31
	Lake Erie & Western		1	20,000	29.51
	Cleveland, Cincinnati, Chicago & St. Louis		1	5,000	7.38
	Chicago & Alton		2	4,500	6.64
	Toledo, Peoria & Western		1	3,500	5.16
30	Henry	2	4	.....	57.537
	Chicago, Burlington & Quincy		3	52,258	90.83
	Chicago, Rock Island & Pacific		1	5,279	9.17
31	Will	1	3	.....	53.322
	Chicago & Alton		3	523,22	100.00

Table 36—Concluded.

Number.	COUNTIES AND RAILROADS.	Number of railroads.	Number of mines.	Tons delivered to each railroad.	Total tons shipped and per cent to each road.
32	Macon	3	3		52.83
	Wabash		1	22,891	51.21
	Cincinnati, Hamilton & Dayton		1	20,000	37.30
	Illinois Central		1	524	.99
33	Gallatin	1	2		42.45
	Louisville & Nashville		2	42,487	100.00
34	Knox	2	2		38.16
	Galesburg & Great Eastern		1	23,164	58.06
	Chicago, Burlington & Quincy		1	16,000	41.92
35	Stark	1	2		32.30
	Chicago, Burlington & Quincy		2	32,300	100.00
36	Rock Island	1	3		25.22
	Davenport, Rock Island & Northwestern		1	22,781	90.22
	Chicago, Rock Island & Pacific		2	2,446	9.78
37	McDonough	1	2		23.62
	Chicago, Burlington & Quincy		2	23,629	100.00
38	Kankakee	3	3		15.02
	Illinois Central		1	10,183	67.58
	Indiana, Illinois & Iowa		1	3,706	24.65
	Wabash		1	1,179	7.82
39	Hancock	1	1		8.32
	Chicago, Burlington & Quincy		1	8,320	100.00
40	Washington	1	1		3.514
	Louisville & Nashville		1	3,514	100.00
41	Franklin	1	1		2.845
	Illinois Central		1	2,845	100.00
	Total tons handled			31,776,742	
	Shipped by water				1.53
	LaSalle—Illinois & Michigan Canal			1,528	
	Total tons shipped—State			31,778,260	

Sangamon county again shows the largest tonnage furnished for shipment; Vermilion county contributes the largest tonnage to any one railroad.

nal statement is presented, in condensed form, of the import-
nd resourcefulness of the counties furnishing the coal for the
t. This table is arranged according to the number of tons
ed from the mines:

: 37—*Recapitulation of Counties from which Coal is Shipped,
nber of Mines, Total Tons Shipped, Supplied to Locomotives,
l to Local Trade and Consumed or Wasted at the Mines.*

COUNTIES.	Number of mines.	Total tons.	Tons shipped.	Tons supplied to loco- tives at the mines.	Tons sold to local trade.	Tons consumed and wasted at the mines.
amon.....	30	4,474,865	3,962,340	109,425	238,221	164,879
air	55	3,357,696	3,077,418	60,271	86,049	133,958
amson.....	25	3,027,377	2,821,100	3,838	97,779	104,460
son.....	16	2,986,967	2,805,105	38,899	42,721	100,242
ilion	24	2,937,313	2,801,075	29,282	46,682	60,274
upin.....	17	2,207,902	1,986,907	73,516	59,003	88,476
u	7	1,800,730	1,669,526	19,634	39,162	72,408
ly.....	14	1,376,852	1,297,907	.....	25,748	53,197
le.....	17	1,714,722	*1,277,211	129,597	131,235	176,679
n.....	20	1,222,483	1,148,091	26,665	11,420	36,307
.....	19	1,240,024	1,051,838	134,191	25,866	28,129
n	6	1,083,734	817,046	172,114	46,507	48,067
on.....	6	925,515	812,754	36,000	28,394	48,367
tian	8	986,685	786,758	80,037	60,403	59,487
a	19	799,821	763,406	.....	14,198	22,217
on.....	9	845,716	721,406	69,912	9,731	44,667
olph.....	11	612,071	577,108	3,748	14,119	17,096
er	8	584,230	549,196	1,133	13,306	20,595
rd.....	8	526,099	474,409	3,255	24,674	23,761
gomery	5	494,501	440,453	2,200	41,462	10,386
iall.....	3	470,203	396,068	30,718	18,904	24,513
n.....	4	419,004	328,247	23,416	40,275	27,066
e	5	294,571	266,978	20,091	3,042	4,460
.....	1	176,116	166,387	.....	2,836	6,893
vell.....	5	126,490	100,303	.....	23,226	2,961
lford	1	115,128	93,122	6,297	8,459	7,250
gston.....	6	114,193	88,337	9,490	11,338	5,028
y	2	119,192	74,654	20,724	15,592	8,222
ean	4	218,140	67,782	43,020	78,689	28,649
y.....	3	70,759	57,537	.....	11,022	2,200

8 tons shipped by Illinois and Michigan canal.

Table 37—Concluded.

Number.	COUNTIES.	Number of mines.	Total tons.	Tons shipped.	Tons supplied to locomotives at the mines.	Tons sold to local trade.	Tons consumed and wasted at the mines.
31	Will.....	3	63,096	53,322	.....	7,879	1,895
32	Macon.....	3	106,198	52,915	.....	50,783	2,500
33	Gallatin	2	61,241	42,487	3,835	9,707	5,212
34	Knox	2	43,080	38,164	876	3,040	1,000
35	Stark	2	38,316	32,300	.....	5,066	950
36	Rock Island.....	3	28,738	25,227	.....	2,230	1,281
37	McDonough	2	23,854	23,629	.....	.....	225
38	Kankakee	1	53,405	15,068	31,659	1,825	4,853
39	Hancock	1	8,320	8,320	.....	.....	.....
40	Washington.....	1	19,930	3,514	3,438	9,519	3,490
41	Franklin.....	1	4,240	2,845	50	20	1,325
	Totals.....	280	35,779,517	31,778,260	1,187,331	1,360,132	1,453,794

DAYS OF ACTIVE OPERATION.

During the year the 380 shipping or commercial mines have been in active operation for 213.29 days, giving employment to 51,384 men during that time.

The following table shows the working time by districts:

TABLE 38—Days of Active Operation, by Districts.

DISTRICT.	MINES, MEN AND AVERAGE WORKING DAYS.								
	ALL MINES.			SHIPPING MINES.			LOCAL.		
	Mines.	Men.	Days.	Mines.	Men.	Days.	Mines.	Men.	Days.
First.....	88	8,038	214.68	41	7,698	227.00	47	340	205.04
Second.....	171	7,362	187.63	28	6,508	231.39	143	854	178.34
Third.....	238	4,808	192.85	55	3,849	219.91	183	959	183.36
Fourth.....	96	7,293	197.42	46	6,787	213.95	50	506	180.86
Fifth	102	9,541	185.66	53	9,261	202.19	49	280	163.79
Sixth	117	9,665	207.09	84	9,433	207.52	33	232	204.94
Seventh.....	120	8,067	202.24	73	7,848	207.23	47	219	137.60
The State.....	932	54,774	197.86	380	51,384	213.29	552	3,390	184.86

The average working time for the shipping mines is 8.53 days less than last year.

following table presents the record of the working time of the shipping mines for 12 years, giving the number of mines and days in operation by districts and for the State:

39—*Days of Active Operation of Shipping Mines for a Series of 12 Years.*

FIRST.		SECOND.		THIRD.		FOURTH.		FIFTH.		SIXTH.		SEVENTH.		THE STATE.	
Mines.	Days.	Mines.	Days.	Mines.	Days.	Mines.	Days.	Mines.	Days.	Mines.	Days.	Mines.	Days.	Mines.	Days.
58	220	26	228	80	215	58	251	101	233	...	...	...	...	301	229.6
35	151.5	26	171	81	182.9	63	194.7	90	188.9	...	...	...	...	295	183.1
26	139.4	28	178.1	66	173	64	185.5	94	192.6	...	...	...	...	278	182.2
38	166	46	198	27	157	40	210	50	197	72	196	48	164	322	186
35	166.9	48	183.2	19	158.6	36	207.7	50	202.1	73	194.8	51	165.5	310	185.5
39	144.5	48	171.1	21	167.5	19	...	51	172.3	72	170.6	59	186.8	329	174.7
37	208	45	211	23	185	37	221.6	50	201.6	72	201	57	206.6	321	205.7
44	238	20	234	55	201	34	210	44	219	78	217	53	197	323	214
39	235.5	26	202	58	188	83	185.7	46	207	77	223.6	57	182.4	331	204.4
33	246.2	25	287.8	56	209	34	206.5	46	213.7	80	210.7	58	177.7	332	210.2
34	251.06	25	243.24	50	222.67	45	210.00	46	224.40	83	224.69	70	200.78	353	221.82
41	227.00	28	231.39	55	219.91	46	213.95	53	202.19	84	207.52	73	207.23	380	213.29

of the districts show a falling off, excepting the fourth and h; these districts, however, show but a slight increase.

AVERAGE VALUE OF COAL.

average value at the mines of the different grades of coal per computed from the values of each individual mine operator and to the several inspectors; these several averages are reached adding the aggregate amount of all sales of each grade by the number of tons of each grade sold.

same basis of computation is followed for each county and district and finally for the State.

returns of the shipping mines only are depended upon as giving the most reliable values of the several grades of coal; the values at the local mines being considered entirely separate from that of the shipping mines. The following table presents the results for the year:

TABLE 40—Total Tons and Average Value per ton of the Different Grades of Coal at the Shipping and Local Mines, by Districts—1904.

DISTRICT.	ALL GRADES.		MINE RUN COAL.		LUMP COAL.	
	Total tons.	Average value per ton.	Total tons.	Average value per ton.	Total tons.	Average value per ton.
First	3,322,268	\$1.448	353,402	\$1.713	1,902,003	\$1.714
Second	3,036,056	1.455	248,200	1.50	2,151,084	1.661
Third	2,707,067	1.22	699,264	1.16	1,298,998	1.448
Fourth	4,901,660	1.07	3,181,689	1.02	1,003,882	1.477
Fifth	7,177,268	1.037	1,683,152	1.007	3,503,554	1.248
Sixth	8,530,028	0.897	2,298,155	0.886	4,370,758	1.104
Seventh	6,105,170	0.963	1,805,423	0.937	1,866,724	1.213
Shipping mines	35,779,517	\$1.083	10,269,285	\$1.019	16,097,003	\$1.391
Local mines	1,298,380	\$1.577	358,619	\$1.363	791,007	\$1.836

TABLE 40—Total tons and Average Value of the Different Grades of Coal at the Shipping and Local Mines, by Districts—1904—Concluded.

DISTRICT.	EGG COAL.		NUT COAL.		PEA COAL.		SLACK COAL.	
	Total tons.	Av. value per ton.	Total tons.	Av. value per ton.	Total tons.	Av. value per ton.	Total tons.	Av. value per ton.
First	243,003	\$1.776	101,709	\$1.468	673,503	\$0.531	48,648	\$0.277
Second	11,664	1.73	26,004	1.346	491,643	0.689	107,461	0.705
Third	108,702	1.527	178,827	1.102	287,897	0.586	133,379	0.562
Fourth	77,213	1.401	145,441	1.113	356,775	0.605	136,660	0.223
Fifth	113,434	1.223	218,602	1.126	1,464,814	0.602	193,712	0.464
Sixth	59,868	1.133	251,024	0.763	1,284,346	0.394	265,877	0.138
Seventh	394,788	1.191	659,615	1.015	1,091,661	0.642	286,959	0.323
Shipping mines	1,008,672	\$1.388	1,581,222	\$1.044	5,650,639	\$0.56	1,172,696	\$0.331
Local mines	6,028	\$1.718	21,161	\$1.442	100,931	\$0.647	20,634	\$0.429

The value per ton found for all the different grades in the first and second districts are considerably higher than found for the other districts; the lowest values for all grades are shown in the sixth district.

The separation of the shipping and local mines and the showing of the distinctive results, in all the tables of these reports, has been observed this year and for the two preceding years.

For a better comparison of the tonnage and values of the different grades of coal at the shipping mines, a table is presented for three years:

TABLE 41—Total Tons and Average Value of the Different Grades of Coal at the Shipping Mines for Three Years.

GRADES OF COAL.	1902.		1903.		1904.	
	Tons.	Value per ton.	Tons.	Value per ton.	Tons.	Value per ton.
All grades.....	28,824,750	\$0.942	33,676,537	\$1.032	35,779,517	\$1.083
Mines run.....	6,752,680	0.90	9,897,087	0.982	10,209,285	1.019
Lump.....	14,198,500	1.173	15,169,856	1.275	16,097,003	1.388
Egg.....	677,079	1.022	992,378	1.269	1,008,672	1.388
Nut.....	1,562,659	0.764	1,741,393	0.946	1,581,222	1.044
Pea.....	4,542,777	0.471	4,478,386	0.527	5,650,639	0.56
Slack.....	1,091,055	0.228	1,397,437	0.307	1,172,696	0.331

It will be observed here that a general advance has obtained in the value of all the several grades of coal during the years shown in the table. Comparing the values this year with those of 1902, it is disclosed that for all grades the advance has been 14 cents, while for mine run the advance is 12 cents, for lump 21 cents, for egg 37 cents, for nut 28 cents, for pea 9 cents and for slack 10 cents.

The first four grades showing the greatest advance comprise 80 per cent of the product for each year; the grades lump and egg, for the State, show the same value, although there is considerable variation in the values as presented in the several districts. The grade of lump coal, the product of all the mines of the State, was for many years regarded as the standard for the value of the product, as returned by the operators to the several inspectors, and as published in the reports of this bureau. This data has been continued from year to year, but for the past three years only for the shipping mines. This tonnage, with the value per ton, is presented in the following table:

TABLE 42—*Average Value of Lump Coal Per Ton at the Mine for a Series of 23 Years, 1882-1904.*

YEAR.	Tons of lump coal produced.	Average value per ton.	YEAR.	Tons of lump coal produced.	Average value per ton.
1881.....	9,115,653	\$1.51	1894.....	13,865,284	\$1.009
1883.....	10,030,991	1.48	1895.....	14,045,962	0.932
1884.....	10,101,005	1.26	1896.....	13,990,924	0.899
1885.....	9,791,874	1.17	1897.....	14,672,241	0.852
1886.....	9,246,435	1.10	1898.....	14,208,795	0.918
1887.....	10,278,890	1.085	1899.....	16,008,109	0.9186
1888.....	11,855,188	1.123	1900.....	13,927,899	1.099
1889.....	11,597,963	1.078	1901.....	13,321,124	1.181
1890.....	12,638,364	1.019	1902.....	*14,198,500	1.173
1891.....	12,900,224	1.008	1903.....	*15,169,856	1.275
1892.....	14,730,963	1.029	1904.....	*16,097,003	1.388
1893.....	16,112,899	1.025	.....	.....	.....

*Shipping mines.

It will be noted that lump coal has had a perceptible increase in value for the past eight years, though a very slight decrease is shown for 1902. This year, however, shows a decided increase. The value of the lump grade compared with that of ten years ago shows an increase of 46 cents per ton; during the same period the increase in tonnage in this grade has been 15 per cent.

The percentages of the different grades produced by the shipping mines is shown in the following table:

TABLE 43—*Percentages of the Different Grades of Coal of Shipping Mines for Three Years.*

YEAR.	PERCENTAGES OF—					
	Mine run.	Lump.	Egg.	Nut.	Pea.	Slack.
1902.....	23.43	49.23	2.35	5.45	15.76	3.78
1903.....	29.39	45.05	2.95	5.17	13.29	4.15
1904.....	28.66	45.55	2.74	4.32	15.51	3.22

The only variation in these percentages worthy of comment is the increase in the grade of mine-run coal and a proportional decrease in that of lump.

MINE EMPLOYES.

The enumeration and classification of the mine employés for the year is shown in the following table, arranged by districts:

TABLE 44—*Classification of Employes in the Shipping Mines, by Districts, with the Employes in Local Mines.*

DISTRICT.	ALL EMPLOYES.				Above ground.	Total.
	Miners.	Other employes.	Boys.	Total.		
First.....	5,565	1,288	220	7,073	625	7,698
Second.....	4,657	1,181	196	6,034	474	6,508
Third.....	2,698	696	85	3,479	370	3,849
Fourth.....	4,581	1,311	257	6,149	638	6,787
Fifth	6,139	1,926	271	8,336	925	9,261
Sixth.....	6,472	1,705	301	8,478	955	9,423
Seventh.....	5,182	1,489	201	6,638	976	7,848
The State.....	35,294	9,596	1,531	46,421	4,962	51,384
Local mines.....	2,693	216	31	2,940	450	3,390
Total.....	37,987	9,812	1,562	49,361	5,413	54,774

In the class designated as miners, all the employés engaged in the operating of machines are included, as these properly belong in this class, though all of them may not be miners proper, but belong in that class rather than with other employés.

The number of miners in the shipping mines has increased 3,002 or 9.3 per cent over last year. The same mines account for 94 per cent of the total number of employés in and around the mines of the State. The record of the number of miners and other employés engaged in bringing forth and delivering the coal product of the State for six years is shown in the following table:

TABLE 45—*Classification of Employes in all Mines for Six Years.*

YEAR.	ALL EMPLOYES UNDERGROUND.				Above ground.	Aggregate
	Miners.	Other employes.	Boys.	Total.		
1899.....	26,449	5,455	1,295	33,199	3,792	36,991
1900.....	27,875	6,047	1,281	35,203	4,181	39,384
1901.....	30,829	7,595	1,326	39,750	4,393	44,143
1902.....	32,875	7,273	1,397	41,518	4,487	46,005
1903.....	34,904	8,523	1,276	44,793	5,111	49,814
1904.....	37,987	9,812	1,562	49,361	5,413	54,774

The increase in the total number of employes during the years shown in the table, is 17,783 or a trifle over 48 per cent; miners, 13,538, or 51 per cent; other employes, 4,357, or 80 per cent; boys, 267, or 21 per cent.

The number of employes underground has increased 16,162 or 49 per cent and the number above ground 1,621 or 43 per cent. The record of workmen in the mines of the State has been published in these reports from year to year and is presented in the following table:

TABLE 46- *Employes in Coal Mines of the State for a Series of Twenty-two Years, by Districts.*

YEAR.	DISTRICTS.							The State.
	First.	Second.	Third.	Fourth.	Fifth.	Sixth.	Seventh.	
1883	7,566	3,211	4,070	4,417	4,675	.....	.....	23,939
1884	8,013	3,616	5,018	4,781	4,147	.....	.....	25,575
1885	7,463	3,391	5,213	4,959	4,429	.....	.....	25,446
1886	7,613	3,599	4,870	5,197	4,567	.....	.....	25,846
1887	7,915	4,068	4,903	4,934	4,984	.....	.....	26,804
1888	8,623	4,914	5,250	5,086	5,537	.....	.....	29,410
1889	9,014	4,498	5,117	5,679	5,764	.....	.....	30,076
1890	8,258	4,099	5,171	5,685	5,361	.....	.....	28,574
1891	9,128	5,089	6,458	5,881	6,395	.....	.....	32,951
1892	9,572	4,865	6,453	6,542	6,200	.....	.....	33,632
1893	8,831	5,974	6,964	7,021	6,780	.....	.....	35,390
1894	10,280	6,713	7,112	7,760	6,621	.....	.....	38,477
1895	9,644	7,184	6,607	8,005	7,190	.....	.....	38,630
1896	9,380	7,103	2,134	4,467	5,758	4,374	3,816	37,032
1897	7,632	6,872	1,635	4,021	5,672	4,100	3,856	33,788
1898	7,377	6,799	1,800	4,030	6,093	4,662	4,265	35,026
1899	7,498	6,631	1,799	4,655	6,401	5,008	4,999	36,991
1900	7,722	5,693	3,864	5,545	5,983	5,885	4,692	39,384
1901	7,872	6,306	3,760	6,950	6,837	6,871	5,547	44,143
1902	8,035	6,583	4,268	5,679	7,564	7,929	5,947	46,005
1903	7,717	6,860	4,363	6,771	8,393	8,354	7,356	49,814
1904	8,038	7,362	4,808	7,293	9,541	9,665	8,067	54,774

This presentation covers a period of 22 years and shows the grouping by districts, thereby indicating the distribution of mine workmen throughout the coal fields of the State.

Previous to the year 1897 the custom was to take the highest number of employes at each mine at any time during the year. Since that time the average number has been taken. This average number is found by adding the total number on all pay rolls, divided by the number of pay rolls.

PRICES PAID FOR MINING.

The county tables to be found in the several inspectors reports give the prices paid for hand and machine mining at each individual mine. These form the basis on which the average price is found for each county, district and for the State. Reference here is made to shipping mines only and for hand mining.

For the year covered by this report two prices prevailed in the several districts, conforming to the agreements between the miners and operators; therefore the computations for this year have been based on three-fourths of the tons under the scale agreement for the year ended March 31, 1904, and one-fourth under the agreement for two years beginning April 1, 1904, now in force. Taking as an example the coal mined by hand in Macoupin county for the fiscal year. The price paid per ton in this county for the year ended March 31, 1904, was 55 cents; for the year beginning April 1, 1904, it is now 52 cents; computing the price on the tonnage as stated the average price for the year is found to be 54½ cents. The following table is the record for the year:

TABLE 47.—Average Prices Paid for Minning by Hand and with Machine, at Shipping and Local Mines, by Districts—1904.

DISTRICT.	MINING BY HAND.				MACHINE MINING.	
	SHIPPING MINES —GROSS WEIGHT		LOCAL MINES— SCREENED.		GROSS WEIGHT.	
	Tons.	Price per ton.	Tons.	Price per ton.	Tons.	Price per ton.
First.....	3,322,268	\$0.786	128,047	\$0.793	.....	.....
Second.....	3,036,056	0.776	286,434	0.946	.....	.....
Third.....	2,707,067	0.607	351,347	0.781	.....	.....
Fourth.....	4,750,340	0.561	241,126	0.637	151,320	\$0.444
Fifth.....	4,870,791	0.547	93,427	0.839	*2,306,477	0.473
Sixth.....	4,892,796	0.535	104,698	0.628	3,637,232	0.475
Seventh.....	5,069,364	0.495	83,709	0.52	1,035,806	0.421
The State.....	28,648,682	0.593	1,288,788	0.767	7,130,835	0.466

*In this district 9,592 tons were mined by machines in a local mine at 50c per ton, making a total of 7,140,426 tons mined by machines.

The average price this year for the State is found to be 59.3 cents per ton, as against 57 cents last year and 56.4 for the year before.

The average price for mining paid in each district for the past three years is shown in the following table:

DISTRICT.	1902.	1903.	1904.
First.....	\$0.73	\$0.737	\$0.788
Second.....	0.72	0.723	0.776
Third.....	0.555	0.567	0.607
Fourth.....	0.52	0.529	0.561
Fifth.....	0.49	0.508	0.547
Sixth.....	0.482	0.4944	0.535
Seventh.....	0.461	0.504	0.495
The State.....	0.5535	0.57	0.593

All of the districts show an increase except the seventh, which shows a decrease of nine-tenths of a cent.

PAYMENT OF WAGES.

The following table gives a record of the payment of wages at all the mines of the State:

TABLE 48—Frequency of the Payment of Wages at Shipping and Local Mines, by Districts—1904.

DISTRICT.	PAYMENTS MADE.								
	WEEKLY.			SEMI-MONTHLY.			MONTHLY.		
	Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.
First.....	1	93	105,557	40	7,605	3,216,711	.....	.....	.....
Second.....	4	83	45,386	23	6,395	2,978,681	1	30	11,988
Third.....	.....	.....	.....	55	3,849	2,707,067	.....	.....	.....
Fourth.....	2	29	20,557	44	6,758	4,881,103	.....	.....	.....
Fifth.....	.....	.....	.....	53	9,261	7,177,268	.....	.....	.....
Sixth.....	1	17	14,000	83	9,416	8,516,028	.....	.....	.....
Seventh.....	1	10	3,935	72	7,838	6,101,235	.....	.....	.....
Shipping mines.	9	232	189,435	370	51,122	35,578,093	1	30	11,988
Local mines....	310	1,536	500,864	239	1,819	782,507	3	35	12,000
The State.....	319	1,768	690,299	609	52,941	36,363,600	4	65	23,988

It is shown here that 370 of the 380 shipping mines, pay their employés semi-monthly; nine make payments weekly, and one monthly. The record of the payment of wages for the past twelve years is shown by percentages in the following table:

TABLE 49—Percentages of Mines, Men and Tons in Reference to Payment of Wages for a Series of Twelve Years.

YEAR.	WAGES PAID WEEKLY.			WAGES PAID SEMI-MONTHLY.			WAGES PAID MONTHLY.		
	Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.
93	67	27.6	26.2	25	56	56.4	8	16.4	23.4
94	43	11.7	9.7	46	66.6	67.2	11	21.7	23
95	31	6.5	4.2	57	78.3	74.4	12	1.52	21.4
96	49	7.8	5.3	37.5	74.6	12	12	17.6	21.2
97	46.78	6.91	4.34	39.04	74.60	73.71	14.18	18.4	21.9
98	32.23	5.36	4.99	62.32	90.25	89.78	5.45	4.38	5.23
99	24.75	4.67	3.04	71.54	93.02	95.75	3.71	2.31	2.21
00	33	4.12	2.57	64.8	95.04	96.48	2.2	.48	.59
01	28.85	2.79	1.44	70.60	97.03	98.44	.55	.18	.12
02	47	4.55	1.84	52.13	95.12	98.06	.87	.33	.1
03	27.76	2.63	1.10	71.70	97.14	98.78	.54	.23	.12
04	34.22	3.23	1.86	65.35	96.65	98.07	.43	.12	.07

From the foregoing it will be seen that, for the past seven years, semi-monthly payments of wages have almost universally prevailed. This year the payment of wages every two weeks was made at 65 per cent of all the mines which embraced 97 per cent of the employés engaged in the industry and handling 98 per cent of the output.

EARNINGS OF MINERS.

This is the fourth year that a presentation has been made of the earnings of miners in the shipping mines, where mining coal is done exclusively by hand.

Following is the showing for this year by districts and for the State for four years:

TABLE 50—*Hand Mining, Earnings of Coal Miners in Shipping Mines, for Year Ended June 30, 1904—By Districts.*

DISTRICT.	No of miners.	Average days worked.	Total tons mined.	Average rate per ton	Gross earnings	Average tons per man per year.	Average earnings per man per year.	Average tons per man per day.	Average earnings per man per day.
First	1,585	227	3,323,968	\$0 7863	\$2,612,299	596 99	\$469 42	2 68	\$2 68
Second	4,637	231 4	2,036,056	0 7759	2,835,676	651 98	505 81	2 22	2 22
Third	2,698	219 9	2,707,067	0 6067	1,641,771	1009 36	608 51	4 56	1 50
Fourth	3,846	213 9	4,042,931	0 5805	2,266,063	1061 20	589 20	4 91	2 71
Fifth	4,484	202 2	4,848,111	0 5473	2,633,371	1061 20	591 74	3 35	2 50
Sixth	3,503	207 5	4,525,106	0 5332	2,421,838	1291 78	691 38	6 23	1 40
Seventh	3,964	207 2	4,609,963	0 4952	2,282,853	1162 96	575 90	5 61	2 50
The State	28,717	213 3	27,091,501	\$0 5899	\$16,233,809	945 38	\$565 30	4 42	2 50
1903	23 878	224 1	24,455,228	\$0 5899	\$14,043,280	944 63	\$542 67	4 22	2 50
1902	24,229	209 8	20,616,155	0 5845	11,838,120	830 88	480 34	4 08	3 21
1901	22,306	203	18,227,190	0 5609	\$10,372,670	821	\$467 11	4 04	2 50

These computations are based on the number classed as miners only, the average number of days the mines were in operation, the number of tons produced, and the average rate per ton prevailing at these mines.

MACHINE MINING.

The undercutting of coal by machines for the year is shown in the following table:

51—*Machine Mining—Mines, Men, Machines, Tons; by Districts—1904.*

DISTRICT.	MINES IN WHICH MACHINES ARE USED.									
	EXCLUSIVELY.				IN PART.			TOTAL.		
	Mines.	Men.	Machines.	Tons.	Mines.	Machines.	Tons.	Mines.	Machines.	Tons.
...	1	40	2	30,285	5	47	121,035	6	49	151,320
...	15	1,453	146	1,990,361	1	10	325,708	16	156	2,316,069
...	21	2,103	231	2,731,415	11	102	905,817	32	333	3,637,232
...	3	95	21	151,123	10	64	884,683	13	85	1,035,806
State	40	3,691	400	4,903,184	27	223	2,237,243	67	623	7,140,427
...	33	4,378	292	4,393,052	35	230	3,253,723	68	522	7,646,777
...	34	4,811	308	4,460,025	30	136	2,037,098	64	464	6,497,123
...	29	3,499	290	3,761,270	34	184	2,015,369	63	464	5,776,639
...	36	3,863	272	3,765,601	29	158	1,817,963	67	430	5,583,564

is the first year that mining by machines, to some extent, has been reported from the first, second and third districts. It will be seen that in mines where the undercutting is done exclusively by machines for the past five years the increase has been only 5.3 per cent, while the number of machines used has increased from 272 to 47.1 per cent, and the tons cut by machines 30.2 per cent. The total tons cut by machines is over 500,000 tons less than last year. A classification of the machines used in the State is presented in the following table, by districts, and for the past five years:

52—*Name and Number of Mining Machines in use, by Districts—1904.*

DISTRICT.	Harrison.	Ingersoll - Ser- geant.	Sullivan.	Morgan - Gard- ner.	Yock.	Jeffrey.	Herzler & Hen- ninger.	Goodman.	Link Belt.	Butler.	Totals.
...	22	...	19	5	...	...	...	1	...	2	49
...	87	29	5	21	4	...	...	10	...	...	156
...	73	98	86	1	23	19	22	7	...	...	333
...	28	15	21	...	...	10	...	11	...	...	85
State	210	142	131	27	27	29	22	29	4	2	623
...	178	98	82	15	11	50	33	15	21	2	522
...	160	133	86	22	28	32	20	29	3	2	465
...	178	132	33	22	24	33	13	...	19	...	484
...	197	119	40	19	5	30	1	...	19	...	430

The total number of machines in use the past year was 623, being an increase of 101 over last year. By districts, the increase has been 41 in the fourth; 19 in the fifth; 35 in the sixth; and 9 in the seventh. One machine was reported last year in the second district. Following is a list of the mines in which machines are used exclusively, with the number and kind of machines in use; also, the tonnage produced at each mine:

TABLE 53—*Mines in which Machines are Used Exclusively.*

Number.	COMPANY.	Location.	MACHINES.		Tons.
			No	Name.	
1	Chi., Wilmi'ton & Verm'n C. Co.	Thayer	12	Morgan-Gardner	387,000
2	Staunton Coal & Mining Co.....	Staunton	8	Jeffrey	315,800
3	Madison Coal Co. No. 6.....	Divernon	9	{ 5 Sullivan	286,800
				{ 4 Morgan-Gardner ... }	
4	Madison Coal Co. No. 4.....	Glen Carbon.....	26	Ingersoll-Sergeant.....	245,700
5	Consolidated Coal Co. No. 6.....	Staunton	14	{ 4 Yock	240,650
				{ 10 Harrison	
6	Lumaghi Coal Co. No. 2	Collinsville	26	Sullivan.....	232,800
7	Madison Coal Co. No. 2.....	Glen Carbon.....	22	Ingersoll-Sergeant.....	225,400
8	Madison Coal Co. No. 5.....	Mt. Olive	17	Ingersoll-Sergeant.....	224,300
9	Odin Coal Co.....	Odin.....	8	{ 4 Jeffrey	211,100
				{ 4 Link Belt	
10	Consolidated Coal Co. No. 8.....	Mt. Olive	17	Harrison	195,100
11	Kerns Doniewald Coal Co	Worden	7	{ 5 Jeffrey	190,000
				{ 2 Goodman	
12	Consolidated Coal Co. No. 1C....	Mt. Olive	17	Harrison	174,200
13	Consolidated Coal Co. No. 7.....	Staunton	15	Harrison	171,700
14	Muren Coal & Ice Co.....	New Baden.....	13	Yock	170,400
15	Hillsboro Coal Co	Hillsboro	5	Morgan-Gardner	156,400
16	Trenton Coal Co.....	Trenton	20	Ingersoll-Sergeant.....	149,800
17	Consolidated C. Co. Heinz Bluff	Collinsville	10	Harrison	149,100
18	Consolidated C. Co. Abby No. 3	..do	10	Harrison	131,000
19	Walnut Hill Coal Co., Avery	Belleville	8	{ 5 Sullivan	115,450
				{ 3 Herzler & Henn'ger }	
20	Superior Coal & Mining Co.....	..do	8	Herzler & Henninger....	109,100
21	Carterville District Coal Co	Marion	12	Sullivan.....	101,400
22	Consolidated Coal Co	Trenton	17	Harrison	86,700
23	Oak Hill Coal Co	Belleville	5	Harrison	73,900
24	Consolidated Coal Co.....	Gillespie	10	Harrison	66,900
25	Lebanon Coal & Mining Ass'n..	Lebanon.....	10	Yock	60,700
26	O'Fallon Coal & Mining Co	O'Fallon	8	Harrison	57,970
27	Consolidated Coal Co. Schure'an	Belleville	4	{ 3 Harrison.....	57,450
				{ 1 Ingersoll-Sergeant. }	
28	Consolidated Coal Co. Green Mt.	..do	5	Harrison	46,600
29	Consolidated Coal Co. Gartside	..do	4	Harrison	45,900
30	Royal Colliery Co.....	Virden	11	Harrison	42,145

Table 53—Concluded.

COMPANY.	Location.	MACHINES.		Tons.
		No	Name.	
Coal Co. No. 3.....	Collinsville.....	9	Sullivan.....	39,649
el Co	Sparta.....	3	Goodman	35,360
ed Coal Co.....	Fairmont	2	Butler	30,285
oal Co. No. 1.....	Gillespie.....	5	Ingersoll-Sergeant.....	25,478
ed Coal Co. Rose Hill	Belleville.....	3	Harrison	16,148
Marion Coal Co	Marion	6	{ 4 Ingersoll-Sergeant.. }	14,266
			{ 2 Sullivan	
ed Coal Co. No. 14....	Staunton.....	5	Harrison	8,502
& Co.....	Bnnker Hill.....	2	Harrison	6,482
ess Brick Co.....	Golden Eagle	2	Ingersoll-Sergeant.....	3,110
oal Co	Gillespie.....	5	Ingersoll-Sergeant.....	484
		400		4,903,184

ble reveals the performance of 400 machines employed ex-
in 40 mines, undercutting 4,903,184 tons of coal, which is
e of ten machines to each mine 12,258 tons to each machine;
machines are represented in the list.

act performance or efficiency of each machine cannot be
all cases, as in several mines two kinds of machine are in

gest number of tons is shown to have been produced by the
n-Gardner machines at the Thayer mine of the Chicago, Wil-
Vermillion Coal company; the average for the year being
is to each machine.

ine is reported to have been in operation 230 days, which
e an average of 1,685 tons produced each day, or an average
is to each machine for each day.

xt largest tonnage shown in in the list, is that of the No. 1
the Staunton Coal & Mining company, at Staunton. The
frey machines at this mine produced an average of 39,242
ng the year; the mine being in operation 222 days, gives
; produced each day, and a daily average of 178 tons for each

The following gives a list of the mines in which machines have been used in producing only a part of the coal:

TABLE 54—*Mines in which only Part of the Output is Cut by Machines.*

Number.	COMPANY.	Location.	MACHINES.		Tons.
			No	Name.	
1	Chicago-Virden Coal Co.....	Virden	10	Goodman.....	325,708
2	Donk Bros. Coal & Coke Co, No.2	Collinsville	28	Sullivan	321,519
3	Big Muddy Coal & Iron Co.....	Murphysboro	14	Harrison	219,986
4	Big Muddy Coal & Iron Co.....	Murphysboro	14	Harrison	177,787
5	Southern Ill. C. M. & W. Co.,No.3	Marion	8	{ 3 Jeffrey..... } 5 Goodman..... }	158,623
6	Royal Coal Co.....	Belleville	18	Sullivan	154,703
7	Madison Coal Co., No. 3	Edwardsville	10	Ingersoll-Sergeant.....	118,189
8	Willis Coal & Mining Co	Willisville.....	8	{ 5 Sullivan	106,379
9	Sorento Coal Co	Sorento	8	{ 8 Goodman..... }	66,687
10	Dutch Hollow Coal & Mining Co.	Sorento	6	Ingersoll-Sergeant.....	66,749
11	Glendale Coal Co.. No. 1.....	Belleville	5	Herzler & Henninger....	64,508
12	Southern Ill. C. M. & W. Co.,No.2	Marion	4	{ 4 Herzler-Henninger }	62,618
13	Christian County Coal Co.....	Taylorville	16	{ 1 Harrison..... }	52,649
14	Gartside Coal Co., No. 4.....	Murphysboro	5	Jeffrey	52,447
15	Henrietta Coal Co., No. 1.....	Edwardsville	8	Ingersoll-Sergeant.....	49,573
16	Chicago & Big Muddy C. & C. Co	Marion ..	3	{ 7 Ingersoll-Sergeant . }	49,587
17	Gartside Coal Co., No. 3.....	Murphysboro	3	{ 1 Herzler-Henninger }	34,085
18	DeCamp Coal Mining Co., No.1.	Staunton.....	4	Jeffrey	34,579
19	Kellyville Coal Co.....	Himrod	19	Goodman.....	24,009
20	Moweaqua Mining & Mfg. Co...	Moweaqua.....	5	Sullivan	20,722
21	M'fact's & Consumers Coal Co ..	Decatur.....	6	Morgan-Gardner	16,537
22	Lenz Coal & Mining Co	Belleville.....	4	Harrison	13,581
23	Gus Blair Big Muddy Coal Co...	Murphysboro	3	{ 2 Jeffrey	12,709
24	Western Coal & Mining Co.....	Bush	2	{ 1 Morgan-Gardner... }	10,353
25	Valley Coal & Mining Co.....	East St. Louis	7	{ 1 Goodman	10,009
26	Penwell Coal Co.....	Pana	1	Ingersoli-Sergeant.....	7,105
27	Interstate C. & M. Co., No. 1....	Worden	4	Goodman.....	5,479
			223	Ingersoll-Sergeant.....	2,237,243

This accounts for 223 machines operated in 27 mines and producing 2,237,243 tons of coal. Combined with table 53 we have 67 mines operating 623 machines, undercutting 7,140,427 tons.

POWDER USED IN MINES.

the record of the powder used in mining coal for the year is shown in the following table:

PLATE 55—Distribution of Powder Used in all Mines, by Districts.

DISTRICTS.	POWDER USED IN BLASTING COAL.					
	Mines.	Men.	Kegs.	Tons of Coal	Kegs per man.	Tons per keg.
.....	33	3,785	37,668	2,289,541	9.95	60.78
1.....	70	1,064	45,667	896,803	42.92	19.64
.....	141	3,123	137,937	2,957,840	44.17	21.44
.....	78	4,354	133,218	4,754,793	30.60	35.69
.....	60	6,221	213,490	7,242,208	34.32	33.92
.....	105	6,572	188,710	8,608,107	28.71	45.62
.....	104	4,805	166,728	5,587,156	34.70	33.51
e State.....	591	29,924	923,418	32,336,448	30.86	35.02
.....	639	40,267	806,311	30,937,409	20.02	38.37
.....	657	36,559	637,448	25,556,523	17.4	40.01
.....	585	34,570	477,612	16,283,180	13.82	34.09
.....	621	29,667	490,713	19,979,219	16.5	40.71

above table for 1904 only the miners actually using powder for blasting coal are used in calculation.

This exhibit is for all mines where powder is used for reducing the coal, including both shipping and local mines. No attempt has been made to separate the mines where the long-wall system prevails from mines worked by pillar-and-room; neither is there any endeavor made for a separation of mines where the coal is undercut before blasting, from the mines where the coal is blasted from the solid.

The record, therefore, for the year is that 923,418 kegs of powder were consumed at 591 or 63.41 per cent of the mines, employing 29,924 or 78.77 per cent of the miners, and reducing 32,336,448, or 87.21 per cent of the total tonnage of the State. From the foregoing, it is evident that the State averages are 30.86 kegs per man, and 35.02 tons per keg.

In addition to the quantity of powder used for blasting down coal there were 3,717 kegs of powder used for other purposes, making a total, all told, of 927,135 kegs, consumed during the year. To this aggregate explosive used is to be added 50,649 pounds of dynamite used for blasting rock, brushing and sinking shafts.

For the purpose of showing in detail where and by whom powder was used during the year, a table has been prepared, giving the mining mines only, where powder is used in connection with coal. The arrangement of the table is by districts, the mine having the largest output of tons heading each list. The number of men employed are exclusively those reported as miners, the number of kegs per man and the number of tons per keg are given for each mine.

TABLE 56—*Shipping Mines in which Powder is Used for Black Coal.*

FIRST DISTRICT.

Number.	NAME OF OPERATOR.	Postoffice address and location of mine.	Output—tons.	Number of miners.	Number of kegs of powder used for blasting coal.	Number of kegs per man.
1	Chicago, Wil. & Ver. Coal Co., No. 1,*	S. Wilmington	283,325	477	681	1 43
2	Chicago, Wil. & Ver. Coal Co., No. 2,*	S. Wilmington	185,245	300	1,000	3 35
3	Acme Coal Co.,	Streator..	166,260	215	2,217	10 31
4	Chicago, Wil. & Ver. Coal Co.,*	Streator..	159,562	231	2,127	9 21
5	Braceville Coal Co., No. 3,*	Braceville...	156,799	230	1,700	7 39
6	Taylor & Cavanaugh, No. 4,*	Carbon Hill..	136,166	229	250	1 09
7	Big Four Wilmington Coal Co., No. 5,*	Coal City ..	128,268	242	1,600	6 61
8	Star Coal Co., No. 2,†	Kangley..	122,189	171	5,666	33 13
9	Matthiessen & Hegeler Zinc Co.,†	LaSalle,	105,557	57	3,218	56 46
10	Wilmington Star Mining Co., No. 6,*	Coal City.....	103,812	150	2,556	17 04
11	Chicago, Wil. & Ver. Coal Co., No. 1,*	Streator..	97,975	183	1,000	5 46
12	Wil. Coal Min. & Mfg. Co., No. 4,*	Diamond ..	95,874	240	2,500	10 42
13	Wil. Coal Min. & Mfg. Co., No. 5,*	Diamond ..	91,781	210	2,900	13 81
14	Cardiff Coal Co., No. 2.....	Cardiff..	79,174	96	2,304	23 96
15	Wilmington Star Mining Co., No. 5,*	Coal City ..	73,715	115	240	2 09
16	Illinois Zinc Co.,	Deer Park..	68,652	85	1,620	19 06
17	Big Four Wil. Coal Co., No. 2,*	Coal City.....	64,750	138	1,300	9 42
18	Gardner Wilmington Coal Co.,	Clark City.....	63,405	112	1,751	15 65
19	Braceville Coal Co., No. 6,*	Braceville	30,179	82	700	8 54
20	Beggs, Davis & Co.,	Fairbury ..	24,200	27	1,396	49 48
21	Taylor & Cavanaugh, No. 5,*	Carbon Hill..	19,545	97	325	3 35
22	William Francis.....	Streator..	11,000	10	122	12 20
23	North Wilmington Coal Co.,*	Seneca.....	8,190	22	48	2 18
24	Howe Coal Co.,	Streator.....	7,922	12	100	8 30

Table 56—Continued.

FIRST DISTRICT—*Concluded.*

NAME OF OPERATOR.	Postoffice address and location of mine.	Output—tons.	Number of miners.	Number of kegs of powder used for blasting coal.	Number of kegs per man.	Number of tons per keg.
Coal Co.,*	Kangley	5,147	10	265	26.50	19.42
Attan Coal Co.,*	Cornell,†	3,282	10	50	5.00	656.40
Davis	Streator	3,196	6	60	10.00	319.50
Coal Co.	Pontiac, †	2,919	18	17	1.11	24.33
derson & Sons	Streator	1,423	4	9	2.25	150.11
ie district		2,289,541	3,785	37,663	9.95	60.78
and room mines		645,928	819	18,426	22.5	35.1

ng wall mines. † Blasted off the solid.

SECOND DISTRICT.

NAME OF OPERATOR.	Postoffice address and location of mine.	Output—tons.	Number of miners.	Number of kegs of powder used for blasting coal.	Number of kegs per man.	Number of tons per keg.
Coal Co., No. 3,†	Gilchrist	191,900	180	11,059	61.44	17.26
Valley Mining Co., No. 2,†	Sherrard	151,203	115	7,816	67.96	19.34
Coal Co., No. 2,†	Wanlock	110,554	94	6,513	69.29	16.97
Valley Mining Co., No. 1,†	Cable	70,853	52	2,682	51.58	26.42
nee Coal Co., ½†	Kewanee	56,290	82	675	8.23	83.30
Coal Co., No. 4,†	Wanlock	44,600	76	3,481	45.80	12.81
ning Coal Co., No. 1, ½†	Wyoming	59,658	40	2,400	60.00	12.36
Coal Co., No. 2,†	Carbon Cliff	23,936	31	1,036	33.42	23.10
City Coal Co., No. 1, *†	Yates City	23,080	35	1,000	28.57	23.09
m & Higbee, ½†	Wyoming	8,658	15	250	16.66	34.63
l Lilliman,†	Cable	6,320	10	315	31.50	20.06
r Jones,†	Boden	4,800	7	185	26.43	25.94
Pettersen,†	Cable	4,000	6	200	33.33	20.00
iteer Coal Co.,†	Coal Valley	2,532	6	50	8.33	50.65
Bluff Coal Co.,†	Briar Bluff	2,480	7	158	22.57	15.69
e & Mahlstrom,†	Coal Valley	2,270	4	128	32.00	17.73
ie District		733,134	760	37,848	49.34	19.32

o seams, one long wall. † Blasted off the solid.

Table 56—Continued.

THIRD DISTRICT.

Number.	NAME OF OPERATOR.	Postoffice address and location of mine.	Output—tons.	Number of miners.	Number of kegs of powder used for blasting coal.	Number of kegs per man.
1	Whitebreast Fuel Co. of Ill.,† E	Dunfermline ...	201,945	151	9,364	62.0
2	Monmouth Coal Co.,†.....	Brereton.....	183,051	151	8,378	55.4
3	Maplewood Coal Co.,†.....	Peoria	162,749	150	9,000	60.0
4	Greenview Coal Co.,†	Greenview	145,772	110	5,339	48.5
5	Wabash Coal Co.,†.....	Athens.....	143,703	120	4,942	41.1
6	Clark Coal & Coke Co.,†	Peoria	122,230	100	5,909	59.0
7	Norris Coal Co.,†.....	Norris.....	104,761	85	4,200	49.4
8	Sholl Bros.,†.....	Peoria	103,049	90	5,266	58.5
9	Athens Mining Co.,†	Athens.....	101,301	83	4,337	52.2
10	Applegate & Lewis,†.....	Cuba	83,000	85	3,080	36.2
11	Wohlschlag Coöperative Coal Co.,†.	Peoria	82,376	44	5,433	123.4
12	Central Coal Mining Co.,†.....	St. David	72,120	92	3,240	35.2
13	Newsam Bros.,†.....	Peoria ..	71,136	74	3,508	47.4
14	Whitebreast Fuel Co. of Ill., C,†.....	Dunfermline ...	70,855	77	3,237	42.0
15	East Cuba Coal Co.,†	Cuba	67,421	65	2,210	34.0
16	Newsam Bros.,†.....	Peoria	60,683	58	3,073	52.9
17	Howarth & Taylor,†	Edwards	60,125	57	3,604	63.2
18	Colliers Coöperative Coal Co.,†.....	Bartonville	54,380	35	2,560	73.1
19	Newsam Bros.,†	Farmington	43,734	47	2,314	49.2
20	Phoenix Coal Co., †.....	Peoria	43,232	55	2,100	38.1
21	South Mountain Coal Co.,†	Petersburg	40,343	39	1,681	43.1
22	Tallula Coal Co.,†	Tallula.....	39,268	45	1,593	35.4
23	Vickery Bros.,†.....	Peoria	38,040	45	2,240	49.7
24	Whitebreast Fuel Co. of Ill., D,†.....	St. David	36,935	40	1,730	43.2
25	Canton Union Coal Co.,†.....	Canton	35,324	40	1,673	41.8
26	Scripps Coal Co.,†.....	Astoria.	34,680	51	1,271	24.9
27	Central Coal & Coke Co.,†	Elmwood	34,606	50	2,130	42.6
28	Farmington Coal Co.,†.....	Farmington	32,480	42	1,240	29.5
29	W. E. Foley,†	Canton	31,390	38	1,220	32.1
30	Petersburg Coal Mining Co.,†	Petersburg.....	29,135	33	1,533	46.4
31	Tazewell Coal Co.,†	Pekin	25,300	45	1,100	24.4
32	A. Reents & Bro.,†.....	Kramm	25,230	32	1,201	37.5

Table 56—Continued.

THIRD DISTRICT—*Concluded.*

NAME OF OPERATOR	Postoffice address and location of mine.	Output—tons.	Number of miners	Number of kegs of powder used for blasting coal.	Number of kegs per man.	Number of tons per keg.
Bros.,†	Peoria	25,059	27	1,101	40 78	22 76
Bros.,†	Peoria	24,580	27	1,360	50 37	18 29
Coal Co.,†	Peoria	21,618	23	1,131	49 17	19 11
Ann & Bro.,†	Peoria	20,200	25	1,240	49 60	16 28
Coal Mining Co.,†	Peoria	18,200	23	975	42 39	11 67
al Co.,†	Peoria	18,140	20	820	41 00	22 12
ley†	Mapleton	17,980	30	1,400	46 67	12 84
ver Coal Co.,†	Galesburg	16,960	20	610	30 50	27 80
ker,†	Mapleton	15,957	27	778	28 81	20 51
Coal Co.,†	Petersburg	15,260	26	1,020	39 23	14 96
in Coal Co.,*	Orchard Mines	13,920	32	50	1 56	278 40
nt & Son,†	Peoria	13,630	20	896	44 80	15 21
wn Coal Co.,†	Middletown	11,317	24	482	20 08	23 48
Coal Co.,†	Peoria	10,700	15	505	33 67	21 19
Fritz,†	Galesburg	10,240	8	410	68 33	24 96
Coal & Mining Co.,†	Farmington	9,233	13	475	36 54	19 44
†	Breeds	8,985	10	305	30 50	29 46
Coal Co.,†	Cuba	8,360	10	360	36 00	23 22
Fritz,†	Galesburg	8,260	11	320	29 09	25 81
Edwards,†	Edwards	5,640	8	280	35 00	20 14
District		2,674,803	2,626	124,224	47 31	21 53

wall. † Blasted off the solid.

Table 56—Continued.

FOURTH DISTRICT.

Number.	NAME OF OPERATOR.	Postoffice address and location of mine.	Output—Tons.	Number of miners.	Number of kegs of powder used for blasting coal.	Number of kegs per man.	Number of tons per acre.
1	Kellyville Coal Co. No. 3†.....	Westville	443,023	310	11,000	35 48	40
2	Westville Coal Co. No. 1†.	Westville	356,042	300	11,995	39 98	39
3	Kellyville Coal Co. Himrod†.....	Himrod	343,047	290	8,700	30 00	40
4	Kellyville Coal Co. No. 4†.....	Westville	339,810	280	8,900	34 23	36
5	Kellyville Coal Co. No. 2†.....	Kellyville	336,330	220	8,500	38 64	39
6	Kellyville Coal Co., Pawnee†.	Westville	287,742	206	7,000	34 15	35
7	Kellyville Coal Co. No. 5†.	Westville	265,255	225	7,000	31 11	37
8	Latham Coal Co.†.	Lincoln	230,099	200	10,449	52 24	22
9	Springfield Coal & Min. Co†.	Taylorville	208,892	180	6,281	34 89	28
10	Christian Co. Coal Co.....	Taylorville	188,113	180	4,108	31 60	45
11	Penwell Coal Co.	Pana	156,287	160	1,402	8 76	111
12	Jones & Adams Coal Co. No. 2†	Catlin	135,871	165	4,700	28 48	25
13	Newbent Coal Co	Pana	113,977	138	540	3 91	211
14	Pana Coal Co.	Pana	110,513	115	508	4 40	215
15	Manufacturers Fuel Co	Pana	110,503	100	945	9 45	126
16	Moweaqua Coal Min. & Mfg. Co., ½†	Moweaqua	109,192	125	4,600	36 80	23
17	Citizens Coal Mining Co.†	Lincoln	105,580	100	4,073	40 73	26
18	Economy Coal Co.†	Danville	103,068	100	4,000	40 00	25
19	Assumption Coal & Min. Co*	Assumption	96,534	129	180	1 40	534
20	Consolidated Coal Co.†	Fairmount	94,116	70	5,365	76 64	17
21	Lincoln Coal Co.†	Lincoln	71,174	95	2,450	25 79	29
22	John O'Connell Coal Co.†	Danville	54,893	81	2,045	25 25	28
23	Electric Coal Co.†	Danville	51,384	75	1,975	26 33	29
24	Colfax Coal Co.†	Colfax	42,996	64	1,783	27 86	24
25	Decatur Coal Co.	Niantic	39,929	35	1,500	42 86	25
26	Consolidated Coal Co.	Missionfield	30,235	10	223	22 80	12
27	Manufacturers & Consumers Coal Co	Decatur	26,824	30	270	9 00	29
28	Consumers Coal Co.†	Ch noa.....	25,174	20	1,877	93 35	11
29	Colfax Co-operative Coal Co.†	Colfax					
30	Mauck Bros.†	Danville	22,333	18	821	45 61	27
31	Westville Coal Co. No 2†	Westville	20,000	50	875	17 56	1
32	C. J. White†	Grape Creek	18,513	16	617	38 56	2
33	Bunting Bros.†.	Grape Creek	11,390	12	444	14 15	21

Table 56—Continued.

FOURTH DISTRICT—Concluded.

NAME OF OPERATOR.	Postoffice address and location of mines.	Output—Tons.	Number of miners.	Number of kegs of powder used for blasting coal.	Number of kegs per man.	Number of tons per keg.
Coal Co. †	Mt. Pulaski .	11,851	35	■	32.60	14.54
Coal Co. †	Oakwood	11,000	10	500	50.00	22.00
ay †.	Oakwood ..	10,000	10	350	35.00	28.57
Coal Co. .	Tower Hill. ..	10,000	15	45	3.00	222.22
Coal Co. †.....	Vandercook .	9,500	20	352	17.60	26.99
avis † ...	Muncie	6,000	28	300	13.04	20.00
g Coal Co. †	Edinburg	1,886	8	55	6.88	34.29
. Fenwick †	Danville	1,700	2	65	32.50	26.15
Hall †.....	Grape Creek ..	1,140	2	40	20.00	26.50
& Ellis †.	Danville	557	2	25	12.50	22.28
District		4,597,087	4,146	127,679	31.74	75.80

ed off the solid.

g wall mine.

—The Long Wall mine is not considered in the district average of kegs per man, nor eg.

FIFTH DISTRICT.

NAME OF OPERATOR.	Postoffice address and location of mine.	Output—tons.	Number of miners.	Number of kegs of powder used for blasting coal.	Number of kegs per man.	Number of tons per keg.
o, Wil. & Vermillion Coal Co	Thayer .	387,652	210	4,276	20.36	90.66
o, Virden Coal Co., No. 1. . .	Virden	348,888	220	4,177	18.99	59.47
n Coal Co.....	Divernon....	286,880	142	3,030	21.34	94.68
e Adams Coal Co., No. 6. †....	Springfield	261,991	216	10,757	49.80	24.36
Coal Co., †... ..	Pawnee	249,315	210	10,383	49.44	24.01
dated Coal Co., No. 6 .	Staunton ...	240,633	180	1,252	6.96	192.21
o, Virden Coal Co., No. 2, †	Auburn..	337,983	225	10,067	44.83	23.59
ield Coal & Mining Co., No. 2†	Riverton .	235,658	172	9,905	57.59	23.79
n Coal Co. No. 5	Mt. Olive . .	224,330	119	852	7.16	263.30
Coöperative Coal Co., †. . .	Springfield .	197,344	158	7,588	48.02	28.01
dated Coal Co., No. 8	Mt. Olive	195,133	150	762	5.08	256.06

Table 56—Continued.

FIFTH DISTRICT—Continued.

Number.	NAME OF OPERATOR.	Postoffice address and location of mine.	Output—tons.	Number of miners.	Number of kegs of powder used for blasting coal.	
12	Springfield Coal & Mining Co., No. 5†	Springfield	186,439	138	7,837	5
13	Girard Coal Co., †.....	Girard	183,312	161	7,404	4
14	Consolidated Coal Co., No. 10.....	Mt. Olive	174,273	140	708	
15	Consolidated Coal Co., No. 7.....	Staunton	171,753	145	951	
16	Springfield Coal & Mining Co., No. 4†	Springfield	162,193	157	6,565	4
17	Greenridge Mining Co., †.....	Greenridge.....	161,834	160	6,729	4
18	Woodside Coal Co., †.....	Springfield	160,536	161	6,675	4
19	Springfield Coöperative Coal Co., †..	Springfield	160,000	140	6,645	4
20	Hillsboro Coal Co.	Hillsboro	156,498	110	1,152	1
21	West End Coal Co., †.....	Springfield	150,272	129	6,032	4
22	Springfield Coal & Mining Co., No. 1†	Riverton	144,135	118	6,158	5
23	Viriden Coal Co., †.....	Viriden	141,642	120	5,001	4
24	Montgomery Coal Co.....	Paisley	136,863	140	955	1
25	Springfield Coal & Mining Co., No. 3†	Springfield	132,435	108	5,731	5
26	Jefferson Coal Co., †.....	Springfield	131,052	90	5,200	5
27	Sangamon Coal Co., †.....	Springfield	126,005	136	5,731	4
28	Auburn & Alton Coal Co., †.....	Auburn	121,090	110	6,027	5
29	Cantrall Coöperative Co., †.....	Cantrall	116,611	98	5,035	5
30	Carlinville Coal Co., †.....	Carlinville	109,654	120	4,593	3
31	Wilmington & Springfield Coal Co. †	Springfield	109,258	109	4,545	4
32	Wabash Coal Co., No. 1, †.....	Dawson.....	107,606	90	4,958	5
33	Spaulding Coal Co., No. 1, †.....	Spaulding	105,673	110	2,758	2
34	Litchfield Mining & Power Co., †....	Litchfield	105,114	90	4,200	4
35	Chicago, Viriden Coal Co., No 3, †....	Chatham.....	104,881	108	4,847	4
36	Citizens' Coal Mining Co., B, †.....	Springfield	103,353	102	4,134	4
37	Williamsville Coal Co., †.....	Selbytown	100,295	85	4,011	4
38	Spaulding Coal Co., No. 2, †.....	Bissell	94,788	125	2,687	2
39	Barclay Coal Mining Co., †.....	Barclay	94,399	99	3,631	3
40	Clover Leaf Coal Co., †.....	Coffeen.....	92,476	65	3,281	5
41	Citizens' Coal Mining Co., A, †.....	Springfield	82,932	94	3,392	3
42	Trutter Coal Co., †.....	Pleasant Plains.	81,000	40	3,240	8
43	Consolidated Coal Co.....	Gillespie.....	66,968	90	403	
44	Manufacturers' Fuel Co., †.....	Nilwood	63,463	75	2,115	2

Table 56—Continued

FIFTH DISTRICT—Concluded.

NAME OF OPERATOR.	Postoffice address and location of mine.	Output—tons.	Number of miners.	Number of kegs of powder used for blasting coal.	Number of kegs per man.	Number of tons per keg.
Colliery Co.,†...	Virden.	49,870	75	2,528	33.71	19.73
dated Coal Co.	Hornsby.	42,145	40	227	5.67	185.68
r Coal Co., No. 1.....	Gillespie.	25,478	51	175	3.43	145.59
n Coal Co.,†.....	Keys.	22,502	32	900	28.12	25.00
n, Springfield Coal Co.,†..	Springfield...	11,087	48	485	10.10	22.86
y Mining Co.,†	Sherman.	9,500	62	40	.85	237.50
dated Coal Co., No. 14 .	Staunton....	8,502	40	102	2.55	83.35
r Coal Co., No. 2.....	Gillespie...	484	18	25	1.39	19.36
districts		7,173,718	6,131	210,782	34.88	34.03

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SIXTH DISTRICT.

NAME OF OPERATOR.	Postoffice address and location of mine.	Output—tons.	Number of miners.	Number of kegs of powder used for blasting coal.	Number of kegs per man.	Number of tons per keg.
ros. Coal & Coke Co., No. 1,†	Collinsville....	475,179	360	16,746	46.52	28.38
er & Davis, Nos 3 and 4, † ..	Centralia .	431,247	305	12, ■■■	■.72	34.72
ros. Coal & Coke Co., No. 2	Collinsville	390,017	230	5,721	24.87	68.17
is & O'Fallon Coal Co., No. 1,†	Belleville ..	318,579	170	12,216	71.86	26.06
n Coal Co., No. 1	Staunton, ..	315,653	206	1,993	9.67	159.46
ros. Coal & Coke Co., No. 3.	Troy ...	291,302	244	8,462	34.68	34.42
Coal Co.,†	Breese	271,667	140	6,589	47.06	41.23
n Coal Co., No. 4....	Glen Carbon	245,736	178	2,094	11.76	117.36
ia Min. & Mfg. Co., No. 2, †	Centralia....	243,171	185	7,452	40.28	32.61
hl Coal Co., No. 2... ..	Collinsville ...	232,820	140	2,815	20.11	62.71
n Coal Co., No. 2	Glen Carbon ...	225,412	165	1,444	8.75	156.10
oal Co.	Odin .	211,174	155	1,959	12. ■■	107.80
Doniewald Coal Co., No. 1.	Worden....	190,115	165	2,200	13.33	36.42
al Coal Co.,†	Sandoval	182,543	150	6,974	46.49	28.17

Table 56—Continued.

SIXTH DISTRICT—Continued.

Numbers.	NAME OF OPERATOR.	Postoffice address and location of mine.	Output—tons.	Number of miners.	Number of kegs of powder used for blasting coal.	Number of kegs per man.	Number of tons per
15	Sorento Coal Co., †	Sorento	176,116	166	4,000	24.10	4
16	Consolidated Coal Co., †	Breese	174,807	130	3,964	28.56	4
17	Royal Coal & Mining Co	Belleville	172,442	130	2,400	18.46	4
18	Muren Coal & Ice Co	New Baden	170,469	140	1,858	18.27	4
19	Muren Coal & Ice Co., No. 1	Belleville	159,771	120	4,566	38.29	4
20	Trenton Coal Co	Trenton	149,816	140	896	6.40	16
21	Consolidated Coal Co., Heinz Bluff	Collinsville	149,101	76	1,111	14.62	15
22	Consolidated Coal Co., Abbey No. 3	Collinsville	131,002	75	997	18.29	13
23	Madison Coal Co., No. 3	Edwardsville	121,156	100	1,327	13.27	9
24	Walnut Hill Coal Co	Belleville	115,457	70	900	12.86	12
25	Kolb Coal Co., No. 1, †	Mascoutah	114,440	94	3,900	40.42	3
26	Superior Coal & Mining Co	Belleville	109,199	90	2,700	30.00	4
27	Madison Coal Co., No. 7, †	Belleville	101,883	65	3,097	46.72	3
28	Joseph Taylor, Taylor, †	O'Fallon	93,602	72	2,842	39.47	3
29	Glendale Coal & Mining Co., No. 1.	Belleville	92,000	78	1,240	15.90	7
30	Missouri & Illinois Coal Co., † . . .	Belleville	91,397	58	2,256	33.18	4
31	Dutch Hollow Coal & Mining Co . .	Belleville	87,428	50	1,104	22.08	7
32	Consolidated Coal Co	Trenton	86,768	80	520	6.50	16
33	Borders Coal Co., †	Marissa	86,060	50	2,458	49.16	3
34	Kolb Coal Co., Vinegar Hill, †	Mascoutah	80,590	65	2,696	41.32	3
35	Valley Coal & Mining Co., †	Birkner	80,000	45	2,500	55.55	3
36	Daniel Zildorph, †	Marissa	78,329	44	2,272	51.64	3
37	Joseph Taylor, Mentor, †	O'Fallon	75,013	80	1,918	23.98	3
38	Oak Hill Coal Co.	Belleville	73,959	36	680	18.89	10
39	Germantown Coal Co., †	Germantown	71,988	65	3,100	47.69	2
40	Eureka Coal Co., †	Marissa	71,266	47	2,424	51.58	2
41	Dutch Hollow Coal & Mining Co., Randle, †	Freeburg	69,233	50	1,816	36.32	3
42	Summit Coal Co., †	Belleville	68,900	45	2,402	53.11	2
43	Henrietta Coal Co., †	Edwardsville	68,484	48	1,223	25.42	3
44	Tire Coal & Mining Co., †	Lenzburg	67,362	49	1,182	24.12	5
5	Belleville & O'Fallon Coal Co., †	Belleville	66,092	47	1,851	39.38	3

Table 56—Continued.

SIXTH DISTRICT—Continued.

NAME OF OPERATOR.	Postoffice address and location of mine.	Output—tons.	Number of miners.	Number of kegs of powder used for blasting coal.	Number of kegs per man.	Number of tons per keg.
Union Coal & Mining Ass'n.....	Lebanon ..	60,798	90	900	10 00	67.55
Union Coal & Mining Co....	O'Fallon ..	57,979	37	685	18 51	84.64
Consolidated Coal Co., Schureman ..	Belleville..	57,451	35	384	10 97	149.61
Union Coal Co.†	Marissa.....	52,652	49	1,533	31.00	39.50
Hippard, Hippard†	Belleville..	49,544	50	1,549	30.96	81.34
Ch Guest & Son†.....	Belleville....	48,758	78	1,897	24.32	25 70
Raticant†.....	Caseyville	46,700	47	2,700	57.45	17 30
Ill. Coal Co., Wildermant†.....	Belleville.....	46,688	35	1,432	40 91	32 00
Consolidated Coal Co., Green Mt.,	Belleville..	46,676	23	363	11.52	128 58
Consolidated Coal Co., White Oak .	Marissa	46,383	40	1,111	33 23	34 87
Consolidated Coal Co., Gartside.....	Belleville.....	45,988	40	342	8.55	134.32
Consolidated Coal Co., Brookside†..	Troy	45,058	42	1,121	26.69	40 19
Ill. Coal Co., St. Clair†	Belleville	45,042	48	1,352	30.98	33 82
High Coal Co., No. 3.....	Collinville .	39,649	40	789	19.72	50 25
Emp Mining Co., No. 1..	Staunton..	38,850	35	585	16.71	66 41
Land Coal Co.†.....	Belleville.....	38,453	30	667	22.11	54 65
Superior Coal Co.†.....	Belleville.....	35,734	25	1,050	42.00	34.03
Prise Mining Co.†	Rentchler.....	33,600	18	1,002	55.67	38.53
Hippard, Walnut Valley.....	Belleville.....	31,617	45	1,746	38.91	18 17
Hollow Coal & Mining Co.† .	Marissa.	30,964	30	985	32.83	31.33
Lale Coal Co., No. 2†	Belleville.....	30,650	30	730	24.11	41.99
St Coal Co.†.....	Belleville....	30,000	30	700	23.11	42.86
Boldt Coal Co.†	Belleville.....	30,000	28	775	27.68	36 71
Light Coal Co.†.....	Freeburg..	29,925	23	922	40.09	32 46
State Coal Co.	Worden ..	27,353	40	841	21 03	32.52
Consolidated Coal Co., Richland† ..	Belleville.....	25,886	25	671	26.84	38.58
Es Hortmant	Belleville.....	25,885	20	580	28.00	46.22
Coal & Mining Co., Harmony	Belleville.....	19,683	50	518	10 36	38.00
Bros. C. & C. Co., abandoned.	Belleville.....	18,512	24	586	24 42	31 59
Burg Mining Co.†.....	Belleville.....	16,690	17	310	18.24	53 61
Consolidated Coal Co., Rose Hill .	Belleville.....	16,148	20	1,111	6.11	125 18
Murphy†	Belleville.....	16,000	12	650	54 17	24 62

Table 56—Continued.

SIXTH DISTRICT—*Concluded.*

Number.	NAME OF OPERATOR.	Postoffice address and location of mine.	Output—tons.	Number of miners.	Number of kegs of powder used for blasting coal.	Number of kegs per man.	Number of tons per keg.
78	Joseph Taylor, St. Ellen,	O'Fallon...	10,980	17	365	21 47	30.08
79	Kinmundy Coal Co.†.....	Kinmundy..	10,745	23	200	8 70	53.72
80	Dutch Hill Coal Co.†.....	New Athens	10,000	12	300	25 00	32.33
81	Lenz Coal & Mining Co., Shiloh.	Belleville...	8,920	15	350	24 00	24.80
82	Salem Coal Co.†.....	Salem.....	4,854	8	30	8 75	161.80
83	Beatty Coal Co.†.....	Mascoutah....	4,704	10	89	8.90	32.35
	Total district,		8,515,128	6,460	186,092	28.81	45.75

† Blasted off the solid

SEVENTH DISTRICT.

Number.	NAME OF OPERATOR.	Postoffice address and location of mine.	Output—tons.	Number of miners.	Number of kegs of powder used for blasting coal.	Number of kegs per man.	Number of tons per keg.
1	Big Muddy Coal & Iron Co., No. 7. .	Herrin	412,887	267	13,196	49 42	31.29
2	Sunnyside Coal Co., No. 1.†.....	Herrin	345,787	205	11,313	55 19	30.56
3	Chi. & Carterville Coal Co., No. 1.†..	Herrin	343,006	210	11,572	55 10	29.64
4	Willis Coal Mining Co., No. 1... .	Willisville	241,751	143	5,823	40.72	41.52
5	St. Louis & Big Muddy C. Co., Burr.	Dewmaine... . .	227,281	185	8,717	47 12	28.07
6	Muddy Valley Min. & Mfg. Co.†....	Hallidayboro..	222,516	160	8,361	52 44	26.52
7	S. Ill. Coal Min. & Wash'g Co., No. 3.†	Marion	196,794	140	2,978	21 27	66.75
8	White Walnut Coal Co.†....	Pinckneyville .	184,769	157	6,129	39.04	30.15
9	New Virginia Coal Co.†.....	Lake Creek ...	165,710	111	4,800	38 40	34.32
10	S. Ill. Coal Min. & Wash'g Co., No. 2.†	Marion	127,305	120	3,310	27.58	47.52
11	West'm Anthracite Coal & Coke Co.†	Sparta	148,000	75	2,600	34.67	36.92
12	Chicago Herrin Coal Co.†.....	Herrin	147,571	97	4,890	50 41	30.18
13	Davenport Coal Co.†.....	Ledford	139,071	100	2,300	23.00	60.47
14	Chi. & Big Muddy C. & C. Co., No. 1.†	Marion.....	128,429	119	3,315	32 06	33.66
15	Joh's'n C'y & Big Muddy C. Min. Co.†	Lake Creek	128,399	95	3,805	40.66	38.74

Table 56—Continued.

SEVENTH DISTRICT—Continued.

NAME OF OPERATOR.	Postoffice address and lo- cation of mine.	Output— tons.	Number of miners	Number of kegs of powder used for blasting coal.	Number of kegs per man.	Number of tons per man.
umson Co. Coal Co.†	Lake Creek	128,331	110	4,741	43.10	27.07
erville Coal Co., Burr.†	Carterville	125,223	87	3,370	38.74	37.16
facturers Fuel Co., No. 1.†	Duquoin	113,440	127	2,427	19.11	46.74
s Colliery Co.†	Duquoin	110,184	105	2,816	26.82	39.13
erville District Coal Co.†	Marion	101,497	65	1,190	18.31	85.29
t Coal Co.†	Sparta	96,309	75	3,659	48.79	26.32
erville Coal Co., No. 2.†	Carterville	84,348	46	2,811	61.11	30.01
Superior Coal Min. Co.†	Duquoin	77,390	84	2,325	27.68	33.29
ly Kennicke Coal Co.†	Carterville	74,048	80	2,800	35.00	26.44
n Coal Co.†	Ledford	72,647	50	2,900	58.00	25.05
oal Co., No. 1.†	Harrisburg	67,000	50	2,400	48.00	27.92
de Coal Co., No. 4.	Murphysboro ..	69,690	60	665	11.08	104.80
facturers Fuel Co., No. 4.†	Pinckneyville ..	65,458	94	2,342	24.91	27.95
facturers Fuel Co., No. 3.†	Duquoin	63,181	78	2,241	28.73	28.19
e Ill. Coal Co., No. 4.†	Willisville	62,024	50	1,823	36.46	34.02
Dick Coal Co.†	Carterville	61,821	64	2,150	33.60	28.75
in Coal & Coke Co.†	Equality	60,178	65	2,444	37.54	24.66
s Coal Mining Co., No. 6.†	Percy	57,824	90	1,806	20.07	32.02
& Co.†	Cutler	53,258	60	2,000	3,333	26.63
al Coal Co.†	Tilden	52,172	72	1,752	24.33	29.78
Muddy Coal Co.†	Tamaroa	51,200	65	1,500	23.08	34.13
wood Davis Coal Co.†	Duquoin	51,094	50	1,162	23.24	43.97
go & Carbondale Coal Co.†	Elk Ridge	50,000	100	1,786	17.86	28.00
facturers Fuel Co., No. 2.†	St. John	48,197	58	1,793	30.91	26.88
n Coal Co.†	Tilden	46,143	57	1,561	27.39	29.56
ide Coal Co., No. 3.	Murphysboro ..	42,322	30	425	14.17	99.58
is Fuel Co., No. 3.	Sparta	42,064	35	1,428	40.57	29.62
is Fuel Co., No. 4.†	Sparta	35,360	20	600	30.00	58.93
s Coal Mining Co. No. 5.†	Percy	35,166	46	1,372	29.83	25.63
go & Coulterville Coal Co.†	Coulterville. ...	32,892	35	600	17.14	54.82
Co. Coal Co.†	Duquoin	30,234	30	1,280	42.67	23.62
erville Mining Co.†	Coulterville	29,300	28	750	26.79	39.07

Table 56—Concluded.

SEVENTH DISTRICT—*Concluded.*

Number.	NAME OF OPERATOR.	Postoffice address and location of mine.	Output—tons.	Number of miners.	Number of kegs of powder used for blasting coal.	Number of kegs per man.	Number of tons per keg.
48	Carterville & Big Muddy Coal Co.†	Lauder . . .	27,831	96	180	10 21	28.40
49	A. E. Powell.†.	Coulterville	24,733	30	750	25 00	32.90
50	Willis Coal & Mining Co., No. 2.†.	Bryden. . .	22,408	30	899	29.97	24.98
51	Eaton Fuel Co.†	Sunfield.	21,975	35	688	19 66	31.94
52	Hugh Murray.†	Nashville . . .	19,830	22	570	25 91	34.96
53	Western Coal & Mining Co	Bush	18,821	40	1,295	32.37	14.53
54	Chicago & Marion Coal Co.†	Marion	14,286	10	325	32.50	43.90
55	Gus Blair Big Muddy Coal Co.	Murphysboro	12,900	13	150	10.00	86.40
56	Strait Coal Co.†	Pinckneyville..	11,415	16	450	28 15	25.37
57	Carterville Mining Co.†	Herrin . . .	10,884	80	320	10 67	34.04
58	M. H. Wilson.†.	Duquoin	10,000	9	200	22.22	30.00
59	Morris Coal Co.†.	Carrier Mills .	9,410	12	325	27 06	28.96
60	Davis Coal & Iron Co.†.	Duquoin . . .	8,000	15	200	13 33	40.00
61	Eldorado Coal & Coke Co.†	Eldorado . . .	6,443	8	■	41 62	19.36
62	Schmidtgal Coal Co.	Murphysboro	5,953	8	237	26 63	25.18
63	Carterville & Herrin Coal Co.†. . .	Herrin . . .	5,950	12	250	20 83	23.80
64	M. Hampton.†	Carterville.	3,935	4	135	33 75	29.15
65	Manufacturers Fuel Co.†.	St. John.	3,562	5	78	15 60	45.67
66	St. Louis & Carterville Coal Co.†. .	Herrin . . .	2,357	8	84	14 00	28.06
67	East Side Coal Co.†.	Equality . . .	1,063	5	38	7 60	27.97
68	Watson Coal Co.†	Carterville..	200	4	25	6 25	8.00
Total district			5,523,322	4,676	164,890	35 26	33.50

† Blasted off the solid.

This table gives the record of the powder used in the shipping mines of the State for blasting coal. It would be a very difficult matter to explain or account for the variations in the quantity of powder used or the results obtained in mines located in contiguous territory. The table presents an opportunity to observe the facts concerning the use of powder as an agent in the work of mining coal in all the different seams and divisions of the State. This table is recapitulated by districts, as follows:

TABLE 57—*Recapitulation of Table 56—Shipping Mines in Which Powder Is Used for Blasting Coal.*

DISTRICT.	Number of mines.	Total tons.	Number of men.	Number of kegs of powder.	Number of kegs per man.	Number of tons per keg.
First	29	2,299,541	3,785	37,668	9.95	60.78
Second	16	733,134	760	37,948	49.34	19.32
Third	52	2,674,808	2,626	124,224	47.31	21.53
Fourth	43	4,597,067	4,146	127,679	31.74	35.30
Fifth	52	7,173,718	6,131	210,782	34.38	34.03
Sixth	83	6,515,128	6,460	196,092	28.81	45.75
Seventh	68	5,523,322	4,676	164,890	33.26	33.50
The State	343	31,506,823	28,584	889,283	31.25	35.38

The number of mines here represented is 343 of the 380 shipping mines. Comparing the results obtained here with those shown in table 55, where all mines of the State using powder to bring down the coal are represented, it will be seen that very slight variation is shown, either by districts or the State, in the number of kegs of powder used per man or the tons produced per keg.

FATAL ACCIDENTS IN MINES.

The returns of the inspectors for the year show that 157 mine employes throughout the State have met death while working in and around the mines.

The following table gives the record of these casualties by districts:

TABLE 58—*Fatal Casualties by Districts—1904.*

DISTRICT.	Total number killed.	WHERE EMPLOY'D.		EMPLOYES.			Total number of tons coal mined.	Number of employes to each death.	Rate per 1,000.	Number of tons of coal mined to each death.
		Under ground.	Above ground.	Under ground.	Above ground.	Total.				
First	13	13	.	7,367	651	8,038	3,450,315	918	1.62	265,409
Second	7	6	1	6,788	574	7,362	3,322,490	1,052	0.95	476,070
Third	16	16	.	4,321	487	4,808	3,058,414	301	3.33	191,151
Fourth	29	28	3	6,591	702	7,293	5,142,786	251	3.98	177,337
Fifth	27	22	5	8,565	976	9,541	7,280,287	353	2.83	269,640
Sixth	35	35	...	8,665	1,000	9,665	8,634,725	276	3.62	246,706
Seventh	30	30	..	7,064	1,003	8,067	6,188,879	289	3.72	206,236
The State	157	148	9	49,361	5,413	54,774	37,077,887	349	2.87	236,165

The number of fatal casualties this year is 157, one more than reported last year. The fourth, fifth, sixth and seventh districts account for 77 percent of this number.

For the State the number of employés for each death is 349, while for the districts the range is from 251 to 1,052; the number of tons to each life lost for the State is 236,165; considered by districts the number of tons is both above and below that for the State. The mortality in the coal mines of the State for 22 years is shown in the following table:

TABLE 59—*Fatal Accidents for Twenty-two Years.*

YEAR.	Number killed.	Total number of employés.	Total tons of coal mined.	Number of employés to each life lost.	Rate per 1,000.	Number of tons of coal produced to each life lost.
1883.....	134	23,939	12,123,457	179.6	5.6	90,474
1884.....	46	25,575	12,208,075	566	1.8	265,368
1885.....	39	25,436	11,834,459	652.4	1.5	303,448
1886.....	52	25,846	11,175,241	497	2.0	214,909
1887.....	41	26,804	12,423,066	654	1.5	303,002
1888.....	55	29,410	14,328,181	534.7	1.9	260,512
1889.....	42	30,076	14,017,298	716.1	1.4	333,745
1890.....	53	28,574	15,274,727	539.1	1.9	286,316
1891.....	60	32,951	15,660,698	549	1.8	261,012
1892.....	57	33,632	17,062,276	580	1.7	313,372
1893.....	69	35,390	19,949,564	513	1.9	289,124
1894.....	72	32,635	17,113,576	453.3	2.2	237,688
1895.....	75	31,962	17,735,364	426.2	2.3	236,478
1896.....	77	33,054	19,786,626	429.2	2.3	256,969
1897.....	69	33,788	20,072,758	489.7	2.0	290,610
1898.....	75	35,026	18,599,299	467	2.1	247,991
1899.....	84	36,991	23,434,445	440	2.3	278,962
1900.....	94	39,384	25,153,929	419	2.4	267,595
1901.....	99	44,143	26,635,319	445.9	2.2	269,044
1902.....	99	46,005	30,021,300	464.7	2.2	303,245
1903.....	156	49,814	34,955,400	319.3	3.1	224,073
1904.....	157	54,774	37,077,897	348.9	2.87	236,165
Averages for 22 years.	77.5	34,328	19,392,884	442.9	2.26	250,253

During this period 1,705 employés have lost their lives at the mines of the State; this is an average of 77.5 deaths per annum and a death rate of 2.26 per 1,000 persons employed.

For the first 11 years shown in this table the average deaths per annum was 58.91 and a rate of 2. per 1,000 employes, while for the last 11 years the average deaths per annum was 96.1 and a rate of 2.41 per 1,000 men employed. The following table presents by districts the fatal accidents for the year, analyzed by causes:

TABLE 60—Fatal Accidents by Causes for 1904, with Totals and Averages for 15 Years.

CAUSES.	Totals.	DISTRICTS.							Percentages.
		First.	Second.	Third.	Fourth.	Fifth.	Sixth.	Seventh.	
Blast explosion	3			1				2	1.91
Boiler explosion	1							1	0.64
Cages	4				1	2	1		2.55
Electrocuted	1			1					0.64
Falling coal and rock	65	10	2	7	13	10	18	5	41.4
Falling down shaft	8	1	1		2		4		5.1
Falling from bucket	1							1	0.64
Falling from building	1					1			0.64
Falling from cage	1							1	0.64
Falling into sump	1							1	0.64
Falling timber	1					1			0.64
Flying coal	9				1		2	3	5.73
Heart failure	1							1	0.64
Machinery	5		1		2	2			3.18
Pit cars	21	1	1	3	5	2	4	5	13.38
Powder explosion	14	1		1		1	1	10	8.9
Premature blasts	16		2	3	1	5	5		10.19
Railroad cars	2				1	1			1.27
Windy shot	2					2			1.27
Totals, 1904	157	13	7	16	29	27	35	30	100.00
Totals, 1903	156	24	11	9	30	26	32	24	
Totals, 1902	99	15	7	6	20	17	19	15	
Totals, 1901	99	11	9	4	21	17	22	15	
Totals, 1900	94	13	7	5	24	22	11	7	
Totals, 1899	84	7	12	1	11	11	22	14	
Totals, 1898	75	12	10	4	19	5	8	17	
Totals, 1897	69	11	9	1	10	19	11	5	
Totals, 1896	77	13	11	4	14	16	4	10	

Table 60—Concluded.

CAUSES	Totals.	DISTRICTS.						
		First.	Second.	Third.	Fourth.	Fifth.	Sixth.	Seventh.
Totals, 1895	75	16	12	16	15	16	...	...
Totals, 1894	72	19	9	10	19	15	...	...
Totals, 1893	69	17	5	12	10	23	...	...
Totals, 1892	57	10	1	11	24	11	...	...
Totals, 1891	60	15	4	9	12	20	...	...
Totals, 1890	53	16	5	10	11	11	...	...
Aggregates, 15 and 9 years . . .	1,296	222	119	124	289	261	164	11
Averages, 15 and 9 years	86.4	14.8	7.9	8.3	17.9	17.4	18.2	15
Percentages, 9 years—1896-1904 . . . . .	...	14.18	9.12	6.13	19.56	17.91	18.02	11

This table also gives the fatal accidents by districts for 15 years. Referring to the number killed this year, it is found that 77 per cent of the whole occurred in the fourth, fifth, sixth and seventh districts, the largest number being in the sixth. There are 19 distinct causes attributed for the 157 fatalities; the falling of the roof and the rooms and working places of the miners continues to be the leading cause of deaths in the mines.

The several causes of the fatal accidents occurring year by year in the mines of the State have been reduced to embrace seven, which are considered to be leading causes. These are shown in the following table for 17 years:

TABLE 61—Fatal Accidents for Seventeen Years, by Leading Causes.

YEARS.	LEADING CAUSES.							
	Blasts and explosions.	Cages.	Falling coal and rock.	Falling down shaft.	Fire, black and white damp.	Pit cars.	Railroad cars.	Other causes.
1888	0	2	33	4	...	6	1	...
1889	3	4	26	2	...	5	...	3
1890	4	4	26	...	5	8	1	...
1891	11	4	33	1	4	2	2	3
1892	4	4	28	8	3	6	1	3
1893	6	4	43	8	2	2	1	3
1894	8	8	43	5	...	6	2	...

Table 61—Concluded.

YEARS.	LEADING CAUSES.								
	Blasts and ex- plosions.	Cages.	Falling coal and rock.	Falling down shaft.	Fire, black and white damp.	Pit cars.	Railroad cars.	Other causes.	Total.
.....	12	4	38	4	5	5	1	6	75
.....	9	5	41	6	2	7	1	6	77
.....	11	.....	46	5	2	1	1	3	69
.....	11	2	43	4	7	2	1	5	75
.....	4	5	51	4	4	6	1	9	84
.....	17	4	51	1	1	11	2	7	94
.....	3	1	57	1	1	11	.....	25	99
.....	13	2	55	7	.....	15	2	5	99
.....	47	6	77	2	.....	18	.....	6	156
.....	44	4	65	8	.....	21	2	13	157
.....	216	63	771	65	36	127	19	96	1,393
ages 17 years. .	15.51	4.52	55.35	4.67	2.58	9.12	1.36	6.89	100.00

total number of deaths from accidents, in and around the of the State, during the 17 years represented, was 1,393, being average of 82 for each year; the past six years the number has above this average, and for the past two years 90 per cent more the average.

fatal and non-fatal accidents for the year, reduced so as to those traceable to the use of explosives in the mines, is shown following table:

62—*Fatal and Non-Fatal Accidents, Caused by Explosions, Falling Coal and Rock, and all Other Causes.*

CAUSE.	CASUALTIES.		PERCENTAGES.		Totals.	Percent- ages.
	Fatal.	Non-Fatal.	Fatal.	Non-Fatal.		
losions.....	17	34	10.83	6.70	51	7.68
remature.....	16	5	10.19	.99	21	3.16
it shots.....	2	2	1.28	.39	4	0.6
oal.....	9	12	5.73	2.37	21	3.16
oal and rock or slate	65	264	41.40	52.07	329	49.55
causes.....	48	190	30.57	37.48	238	35.85
.....	157	507	100.00	100.00	6.64	100.00

The total number of accidents, in mines, both fatal and non-fatal, for the year, was 664. The non-fatal accidents reported are for employes losing one month or more of time: these represent 76.36 per cent of the whole, while the fatalities are 23.64 per cent.

Both the fatal and non-fatal accidents caused by explosions of all kinds, and by flying coal, are considered as ascribable to the use of powder.

In this connection it may also be stated that the inspectors in reporting some of the accidents in both classes as resulting from falling coal, rock, etc., make mention that they are inclined to the belief that the results came from blasting, but, not being positive, report them as being caused by falls. Therefore, in considering the number of accidents clearly traceable to the use of powder in the mines, there must always be reckoned an unknown number, that, meeting death or being maimed by falling roof and sides, if possible to trace to the primary cause, might be found to have originated from the concussions caused by explosions.

A series of tables for the last four years bearing directly on this matter have been prepared and follow:

TABLE 63—*Fatal Accidents by Causes and by Districts, for the Year Ended July 1, 1901.*

DISTRICTS.	Blast explo- sion.	Blast prema- ture.	Blow out shots	Powder explo- sion.	Flying coal.	Falling coal, rock, etc.	Other causes.	Total.
First						9	2	11
Second	1				3	4	1	9
Third.....				2		1	1	4
Fourth		1			2	14	4	21
Fifth.....		7				5	5	17
Sixth.....					3	14	5	22
Seventh				1		10	4	15
The State	1	8		3	8	57	22	99

TABLE 64—Fatal Accidents by Causes and by Districts for the Year Ended July 1, 1902.

DISTRICTS.	Blast explo- sion.	Blast prema- ture.	Blown out shots	Powder explo- sion.	Flying coal.	Falling coal, rock, etc.	Other causes.	Total.
First				1	1	9	4	15
Second						5	2	7
Third.....	1					5		6
Fourth		2				10	8	20
Fifth.....		6				5	6	17
Sixth.....		1		2		13	3	19
Seventh.....	1				2	8	4	15
The State....	2	9		3	3	55	27	99

TABLE 65—Fatal Accidents by Causes and by Districts for the Year Ended July 1, 1903.

DISTRICTS.	Blast explo- sion.	Blast prema- ture.	Blown out shots	Powder explo- sion.	Flying coal.	Falling coal, rock, etc.	Other causes.	Total.
First		1				13	10	24
Second					1	6	4	11
Third			6			3		9
Fourth				2		20	8	30
Fifth.....		5	6	1		7	7	26
Sixth.....	1	1	8		1	15	6	32
Seventh	2	3			1	12	6	24
The State....	3	10	20	3	3	76	41	156

TABLE 66—Fatal Accidents by Causes and by Districts for the Year Ended July 1, 1904.

DISTRICTS.	Blast explo- sion.	Blast prema- ture.	Blown out shots	Powder explo- sion.	Flying coal.	Falling coal, rock, etc.	Other causes.	Total.
First.....				1		10	2	13
Second		2				2	3	7
Third	1	3		1		7	4	*16
Fourth		1			4	13	11	29
Fifth.....		5	2	1		10	9	*27
Sixth.....		5		1	2	18	9	35
Seventh.....	2			10	3	5	10	30
The State....	3	16	2	14	9	65	48	157

*One shot firer.

The foregoing tables have been condensed and are presented in the following table:

TABLE 67—Fatal Accidents for Four Years ended July 1, 1901, 1902, 1903, 1904, by Districts.

DISTRICT.	Blast explo- sions.	Blast prema- ture.	Blown out shots.	Powder explo- sions.	Flying coal.	Falling coal, rock etc.	All other causes.	Total.
First		1		2	1	41	18	63
Second	1	2			4	17	10	34
Third.....	2	3	6	3		16	5	35
Fourth.....		4		2	6	44	44	100
Fifth.....		23	8	2		27	27	87
Sixth	1	7	8	3	6	60	23	108
Sevenths	5	3		11	6	35	24	84
Totals	9	43	22	23	23	240	151	511
Percentages .....	.76	8.42	4.3	4.5	4.5	46.97	29.55	100.00
Class perc'tages.			23.48			76.52		100.00

This table, by districts and causes, shows a total of 511 fatal accidents during the four years ranging from 34 in the second district to 108 in the sixth.

Directing attention to the bottom lines showing the totals and percentages of the several causes, it is shown that 120 deaths or 23.48 per cent of the whole were caused from blasts of all kinds, and flying coal from blasts; leaving 240 or 46.97 per cent of the fatalities caused by falling coal, rock, etc., and 151 or 29.55 per cent to all other causes.

The foregoing table is presented in another form showing the record by causes and districts:

TABLE 68—Fatal Accidents for Four Years, ended July 1, 1901, 1902, 1903, 1904, by Causes,

CAUSES.	DISTRICTS.							Totals.
	1st.	2d	3d	4th	5th	6th	7th	
Blast explosions		1	2			1	5	9
Blasts premature	1	2	3	4	23	7	3	43
Blown-out shots			6		8	8		22
Powder explosions	2		3	2	2	3	11	23
Flying coal	1	4		6		6	6	23
Falling coal, rock, etc	41	17	16	44	27	60	35	240
All other causes	13	10	5	44	27	23	24	151
Totals	63	34	35	100	87	106	84	511
Percentages	12.33	6.65	6.85	19.57	17.02	21.14	16.44	100.00
Percentages by districts	25.83			74.17				100.00

The reading of the percentages of this table reveals that the deaths in our mines range from 6.65 per cent in the second district to 21.14 per cent in the sixth; while grouping the districts it is found that 25.83 per cent of all fatal accidents occurred in the first, second and third, and 74.17 per cent in the fourth, fifth, sixth and seventh. In these last named districts, during the past year, 73.36 per cent of the miners were employed, producing 81 per cent of the coal and using 76 per cent of the powder.

A very thorough and comprehensive article, with a tabulation of the fatal accidents in the United States and Canada, for ten years, 1894 to 1903, prepared by Mr. Frederick L. Hoffman, was published in the *Engineering and Mining Journal*, New York, in its issue of Dec. 22, 1904.

The tables give such complete data of the fatal accidents in coal mines that these tables are here reproduced.

TABLE 69—Number of Persons Killed by Accidents in Coal Mines of the United States and Canada—1894-1903.

	1894.	1895.	1896.	1897.	1898.	1899.	1900.	1901.	1902.	1903.	Total
Alabama.....	19	38	28	38	45	40	37	41	50	57	363
Colorado	19	23	68	35	24	41	29	55	73	44	411
Illinois.....	72	75	77	69	75	84	94	99	99	156	900
Indiana	*	23	28	18	22	18	18	24	24	55	236
Indian Ter..	13	8	12	22	17	25	40	44	60	33	272
Iowa	19	20	22	31	36	20	29	26	55	21	1,229
Kansas.....	26	10	12	6	17	16	22	26	27	36	198
Kentucky..	10	8	6	12	6	7	17	21	19	*	108
Maryland..	7	9	6	5	4	5	7	12	11	*	106
Missouri.....	19	13	16	8	9	14	10	15	10	17	131
New Mexico ..	*	28	7	7	7	■	15	9	17	17	122
Ohio	45	53	41	40	52	57	68	72	81	114	622
Pennsylvania (anthr.) ..	446	421	502	423	411	461	411	513	300	518	4,406
Pennsylvania (bit.) ..	122	156	180	150	199	238	285	301	456	402	2,490
Tennessee.....	14	37	22	10	19	20	10	53	226	26	432
Utah.....	*	1	3	3	3	—	209	10	8	7	244
Washington.....	50	35	8	7	9	45	33	27	34	25	273
West Virginia.....	59	83	63	62	90	89	141	130	120	159	968
British Columbia.	4	10	9	6	7	11	17	102	139	42	347
Nova Scotia	13	9	8	7	7	19	21	14	19	31	149
Total deaths.....	957	1,057	1,120	947	1,049	1,243	1,403	1,594	1,828	1,760	13,048

* No report.

† Total for 1894-1902.

This table gives the total number of persons killed in the coal mines of the several states and Canada for each of the ten years, with the aggregates of all for each year. The total number of deaths is shown to be 13,048; the largest number 1,829, appears for the year 1902, while the smallest, 947, is shown for 1897.

next exhibit gives these fatal accidents, for all the years, by rates per 1,000 persons employed:

70—Fatal Accidents in Coal Mining in the United States and Canada—1894-1903.

	NUMBER OF PERSONS KILLED PER 1,000 EMPLOYED.										
	1894.	1895.	1896.	1897.	1898.	1899.	1900.	1901.	1902.	1903.	Total
.....	2.13	4.61	2.83	3.07	4.55	3.10	2.58	2.90	2.79	2.94	3.07
..	3.06	3.05	10.07	4.99	3.23	5.60	3.99	6.85	8.11	4.27	5.35
. .	2.21	2.35	2.33	2.04	2.14	2.27	2.39	2.24	2.15	3.13	2.35
.....	*	2.92	3.94	2.00	2.63	2.07	1.82	1.98	1.83	3.64	2.53
er.	3.95	1.64	3.26	6.34	4.82	6.24	7.59	8.35	9.62	5.42	6.11
.....	1.85	1.82	2.62	2.45	3.38	2.49	2.22	1.97	4.23	1.59	2.44
...	2.58	1.11	1.36	0.71	1.95	1.57	2.06	2.28	2.70	3.61	2.06
.....	1.25	1.02	0.79	1.55	0.67	0.83	2.06	2.14	1.58	*	1.35
l.	1.69	2.30	1.58	1.17	0.89	1.08	1.32	2.23	1.99	*	1.59
.....	2.49	1.84	2.43	1.22	1.22	1.80	1.31	1.63	1.09	1.35	1.67
xico	*	16.88	4.87	5.13	3.71	7.96	7.44	4.81	10.11	7.26	7.56
.....	1.43	1.79	1.44	1.39	1.77	2.03	2.14	2.15	2.16	2.75	1.95
ania (anthr.) .	3.19	2.93	3.35	2.83	2.89	3.26	2.86	3.47	2.03	3.41	3.02
ania (bit.) .	1.44	1.83	2.14	1.72	2.27	2.82	2.43	2.56	3.37	2.65	2.41
e.	2.53	7.23	3.37	1.58	2.43	2.60	1.15	6.10	23.80	2.69	5.84
.....	*	1.49	4.35	4.17	4.56		138.96	5.61	3.24	3.21	20.75
ton.	14.79	12.38	2.98	2.48	2.70	13.60	7.79	5.59	7.83	5.13	7.45
gania.	2.98	3.97	2.68	2.89	3.86	3.53	5.03	4.01	3.78	4.03	3.75
olumbia.	1.37	3.42	3.27	2.47	2.34	2.91	4.22	25.67	34.65	9.85	10.16
otia	2.41	1.55	1.33	1.35	1.56	3.39	3.17	1.83	2.36	2.79	2.25
.....	2.48	2.67	2.79	2.34	2.59	2.96	3.24	3.24	3.49	3.19	2.94

report. † Average rate for 1894-1902

average rate here shown for the ten years is 2.94 per 1,000 persons employed; this rate is less than is shown for any year since

The fatal accidents for the State for 22 years is shown in the following table; arranged by districts showing the number killed by falls and by other causes:

TABLE 71—*Fatal Accidents from Falls in Mines and from Other Causes, with Averages and Percentages for 22 Years.*

YEAR.	DISTRICT.														Total from falls in mines.	Total from other causes.	Total deaths.
	First		Second.		Third.		Fourth		Fifth.		Sixth.		Sev-enth.				
	Falls	Other causes.	Falls.	Other causes.	Falls	Other causes.	Falls	Other causes.	Falls	Other causes.	Falls	Other causes.	Falls	Other causes.			
	Falls	Other causes.	Falls.	Other causes.	Falls	Other causes.	Falls	Other causes.	Falls	Other causes.	Falls	Other causes.	Falls	Other causes.			
1883	7	72	1	...	13	5	11	5	8	12	...	...	...	...	40	94	134
1884	6	5	5	1	8	4	4	5	6	2	...	...	...	...	29	15	44
1885	6	4	...	3	2	4	9	4	3	4	...	...	...	...	20	19	39
1886	9	5	3	3	5	6	8	1	7	5	...	...	...	...	32	20	52
1887	10	4	3	2	3	2	2	1	10	4	...	...	...	...	28	13	41
1888	16	3	1	4	5	5	5	3	6	7	...	...	...	...	33	23	56
1889	8	6	1	2	3	3	6	2	6	3	...	...	...	...	28	16	44
1890	15	1	1	4	3	2	5	6	7	4	...	...	...	...	36	17	53
1891	10	5	2	2	4	5	...	6	11	9	...	...	...	...	33	27	60
1892	8	2	1	...	5	6	5	16	6	5	...	...	...	...	28	25	53
1893	15	2	3	2	8	4	6	4	16	9	...	...	...	...	48	21	69
1894	13	6	5	4	5	5	10	9	10	5	...	...	...	...	43	29	72
1895	8	8	7	6	7	9	7	8	9	7	...	...	...	...	38	37	75
1896	14	4	4	7	3	1	...	6	3	13	4	...	5	5	41	36	77
1897	8	3	4	5	3	1	10	...	11	8	8	3	2	3	46	23	69
1898	8	4	5	5	1	3	15	4	3	2	4	4	7	10	43	32	75
1899	6	1	4	8	2	2	9	2	7	7	14	8	9	5	51	33	84
1900	13	5	3	4	2	3	16	8	8	14	5	6	4	3	51	43	94
1901	9	2	4	5	1	3	14	7	5	12	14	8	10	5	57	42	99
1902	9	6	5	2	5	1	...	10	5	12	13	6	8	7	55	44	99
1903	14	10	6	5	3	6	22	8	7	19	15	17	12	12	79	77	156
1904	11	2	3	4	7	9	15	14	13	14	22	13	8	22	78	79	157
22 years	223	160	71	77	103	89	208	129	169	177	99	65	65	72	935	770	1,705
Averages	10.1	7.3	3.2	3.5	4.2	4.0	4.8	5.4	7.7	8.0	*11.	*7.2	*7.2	*8.0	43.4	35.0	77.5
Percentages	58.2	41.8	48.0	52.0	53.7	46.4	61.5	38.5	48.8	51.2	60.4	39.6	47.5	52.6	54.8	45.2	100.0

* Nine years.

Directing attention to the totals for all the years, it will be seen that 1,705 have been killed, and of this number 935 or 54.84 per cent have met death from falling roof and sides in the mines.

the five districts covering the series of years, the fourth, first third, in the order named, show much the largest percentages of hs from falls. The record for the sixth and seventh districts is nine years; the sixth shows over 60 per cent from falls during e years. Table 71 has been reduced to percentages and is shown ollows:

LE 72 — *Percentages of Fatal Accidents Caused by Falling Roof or Sides, for Twenty-two Years, by Districts.*

AR.	DISTRICT.							THE STATE.	
	First.	Second.	Third.	Fourth.	Fifth.	Sixth.	Seventh.	Total deaths.	Per cent.
.....	8.9	100	82.4	62.5	40	.....	.....	134	30
.....	27.3	83.3	66.7	44.4	75	.....	.....	46	56.5
.....	60	.....	33.3	69.2	43	.....	.....	39	51.3
.....	64.3	50	45.5	89	58.3	.....	.....	52	61.5
.....	71.4	60	60	66	71.4	.....	.....	41	68.3
.....	84.2	20	50	62.5	46.2	.....	.....	55	60
.....	57.1	33.3	50	75	72.7	.....	.....	42	62
.....	93.8	20	80	45.5	63.6	.....	.....	53	67.9
.....	66.7	50	44.4	50	55	.....	.....	60	55
.....	80	100	45.5	33.3	54.5	.....	.....	57	49.1
.....	88.2	60	66.6	60	64	.....	.....	69	69.6
.....	68.4	44.4	50	52.6	66.6	.....	.....	72	58.3
.....	50	58.3	43.75	46.67	56.3	.....	.....	75	50.7
.....	77.8	36.4	75	57.1	18.8	100	50	77	53.3
.....	72.7	44.4	75	100	57.9	72.7	40	69	66.7
.....	66.7	50	25	79	60	50	41.2	75	58.1
.....	85.7	33.3	50	81.8	50	63.6	64.3	84	60.7
.....	72.2	42.9	40	66.7	36.4	45.5	57	94	54.3
.....	81.8	44.4	25	66.7	29.4	63.6	66.7	99	57.6
.....	60	71.43	83.33	50	29.41	68.42	53.33	99	55.55
.....	58.33	54.55	33.33	73.33	26.92	46.88	50	156	50.64
.....	84.61	42.86	43.75	51.72	48.15	62.86	26.66	157	49.68
rs ...	58.22	48.00	53.65	61.49	48.84	*60.37	*47.45	1,705	54.84

nine years.

his table shows an average for the 22 years of 54.84 per cent.

The occupations and conjugal relations of the killed for the year are given by districts in the following table:

TABLE 73—Occupation and Conjugal Relation of the Killed.

Number.	OCCUPATION.	DISTRICTS AND NUMBER OF FATAL CASUALTIES IN EACH.						Total number killed.	CONJUGAL RELATION.				
		First.	Second.	Third.	Fourth.	Fifth.	Sixth.		Seventh.	Married.	Single.	Widows.	Children Depend- ents.
1	Brakeman				1				1		1		
2	Cagers				1				1	1		1	
3	Carpenters					1			1	1		1	
4	Drivers	1	1	4	3	2	4	3	20	7	13	6	
5	Engineers				1	1		1	3	3		1	
6	Examiner							1	1	1		1	
7	Laborers				2	2	2	1	7	5	2	3	
8	Loaders			1					1		1		
9	Machinists		1				1		2	1	1	1	
10	Machine helpers					1	2		3	2	1	2	
11	Machine runners						2		2	1	1	1	
12	Miners	12	5	10	17	16	21	17	98	64	34	61	
13	Mine manager						1		1	1		1	
14	Pumpman							1	1	1		1	
15	Shot firers			1		1			2	2		2	
16	Sinkers				2	1		1	4	3	1	2	
17	Spragger							1	1		1		
18	Teamster						1		1	1		1	
19	Timberman						1		1		1		
20	Top boss					1			1	1		1	
21	Trappers				1	1		2	4		4		
22	Weighman				1				1	1		1	
	Totals	13	7	16	29	27	35	30	157	98	61	87	

Here are shown 22 distinct occupations represented by the 157 deaths occurring during the year. It will be seen that much the largest number of deaths came to miners; however, they constitute a very large proportion of the employes at all mines. This year the figures show 98 or 62.42 per cent of the killed to be miners. Drivers show the next largest number killed; 20 or 12.74 per cent engaged in this occupation lost their lives.

For the year 87 wives were made widows and 239 children were left fatherless; some of the latter, however, were of mature years and not dependent.

The final column of the table gives the dependents, the total being 296 left in the communities where the accidents occurred.

NON-FATAL ACCIDENTS.

This class of accidents for the year is shown in the following table:

TABLE 74—*Non-Fatal Accidents, by Districts—1904.*

DISTRICT.	Number of men injured.	EMPLOYED.		NUMBER EMPLOYED.		Total number of employes	Total tons of coal mined.	Number of employes to one man injured.	Rate per 1,000.	Number of tons of coal mined to one man injured.
		Under ground.	Above ground.	Under ground.	Above ground.					
First.	70	70	...	7,367	671	8,038	3,450,315	115	8.71	49,290
Second	96	90	6	6,788	374	7,162	3,322,490	77	13.04	34,609
Third	9	9	.	4,921	487	4,808	3,058,414	534	1.87	339,824
Fourth	111	107	4	6,591	702	7,293	5,142,786	66	15.22	46,331
Fifth.	56	54	2	8,565	976	9,541	7,290,287	170	5.87	130,003
Sixth.	81	76	5	8,665	1,000	9,665	8,634,728	119	8.35	106,602
Seventh	84	76	8	7,064	1,003	8,067	8,188,879	96	10.41	73,796
The State	507	482	25	49,361	5,413	54,774	37,077,897	108	9.26	73,132

The total number injured was 507; these sustained a loss of 30 days or more of time. Of the total number 482 or 95 per cent were injured under ground.

The rate this year is 9.26 per 1,000 employed. This class of accidents occurring in the mines of the State, combined with the total number of employes and tons, for 22 years, is shown in the following table:

TABLE 75—*Non-Fatal Accidents for Twenty-two Years.*

YEAR.	Number of men injured.	Total number of employés.	Total number of tons of coal mined.	Number of employés to one man injured.	Rate per 1,000.	Number of tons of coal produced to one man injured.
1883.....	231	23,939	12,123,456	104	9.6	52,482
1884.....	197	25,575	12,208,075	130	7.7	61,970
1885.....	176	25,446	11,834,459	145	6.9	67,241
1886.....	171	25,846	11,175,231	151	6.6	66,126
1887.....	180	26,804	12,423,066	149	6.7	69,017
1888.....	179	29,410	14,328,181	164	6.1	80,046
1889.....	201	30,076	14,017,298	150	6.7	69,738
1890.....	294	28,574	15,274,727	97	10.3	51,955
1891.....	367	32,951	15,660,698	90	11.1	42,672
1892.....	370	33,632	17,062,276	91	11.0	46,114
1893.....	403	35,390	19,949,564	88	11.4	49,508
1894.....	521	32,635	17,113,576	63	16.0	32,843
1895.....	605	31,962	17,735,864	53	18.9	29,315
1896.....	672	33,054	19,786,626	49	20.3	29,444
1897.....	518	33,788	20,072,758	65	15.3	38,751
1898.....	438	35,026	18,599,299	80	12.5	42,444
1899.....	597	36,991	23,434,445	62	16.1	39,254
1900.....	611	39,384	25,153,939	65	15.5	41,166
1901.....	422	44,143	26,635,319	104.6	9.56	63,117
1902.....	406	46,005	30,021,300	127	8.8	73,944
1903.....	410	49,814	34,955,400	121	8.2	85,257
1904.....	507	54,774	37,077,897	108	9.26	73,132
Average 22 years	385	34,328	19,392,884	89	11.22	50,335

Previous to the report of 1901, the non-fatal accidents were returned for all those losing one week or more of time, since then only those losing 30 days or more have been returned. The total number of this class of accidents, reported for the last 22 years, has been 8,476 or an average of 385 for each year; this is one for every 89 men employed, or a rate of 11.22 per 1,000 employés, and one for every 50,335 tons produced.

occupations of those injured in the mines is shown in the following, by districts:

—Non-Fatal Accidents by Occupation and Districts with Totals and Percentages.

OCCUPATION.	DISTRICTS.							Totals.	Percent-ages.
	First.	Second	Third.	Fourth	Fifth.	Sixth.	Seventh.		
Engineers.....		1						1	0.20
.....	1	1		1	3	3		9	1.78
Boilermakers.....				1			4	5	0.99
Firemen		9		1				10	1.97
.....	9	15	1	22	16	22	22	107	21.10
.....							1	1	0.20
.....				2				2	0.39
.....				3	6	4	2	15	2.96
.....					5	3		8	1.58
Helpers.....					2	2		4	0.79
Runners.....				2		2	1	5	0.99
.....	57	63	7	69	17	35	41	289	57.00
Tramway drivers.....						2	1	3	0.59
.....	3				1			4	0.78
.....				3				3	0.59
.....					2	1		3	0.59
.....			1					1	0.20
.....				1		1		2	0.39
Miners.....				3	4	3	2	12	2.37
.....		1						1	0.20
.....		3					3	6	1.18
.....						1		1	0.20
.....		2		2			4	8	1.58
.....		1		1		2	2	6	1.18
Blacksmith.....							1	1	0.20
.....	70	96	9	111	56	81	84	507	100.00
Percentages.....	13.79	18.94	1.78	21.89	11.05	15.98	16.57	100.00	

By attention to the last column in the table, it will be seen that miners proper represent 57 per cent of the total numbers injured, while drivers in the mines account for 21 per cent.

TABLE 77—*Conjugal Relations of the Injured in Non-Fatal Accidents, and Time Lost, by Districts.*

Here it is shown that 277 or 55 per cent, of the injured were married and 45 per cent single. The married men had each an average of 2.29 children, and an average of 3.23 to each family.

The number recovering from injuries, at the date of this report was 388 or 76.53 per cent, leaving 119 or 23.47 per cent unable to resume work, many of whom, owing to the serious injuries received could never resume their former occupations and will remain crippled for life.

The 388 men recovered lost a total of 21,835 days, or an average of 58 days each. The causes of the non-fatal accidents are shown in the following table by districts and for the State:

TABLE 78—Causes of Non-Fatal Accidents, by Districts.

Number.	CAUSE.	DISTRICT.							The State.	Per-centage.
		First.	Second	Third.	Fourth	Fifth	Sixth.	Sev-enth.		
1	Ax				1	.....	1	1	3	0.1
2	Blasts				1	4	.....	.....	5	0.1
3	Blown out shots .....				.....	.....	2	.....	2	0.1
4	Cable.....				.....	1	.....	.....	1	0.1
5	Cage		1	.....	1	.....	2	.....	4	0.1
6	Chute.....				.....	.....		1	1	1
7	Crowbar.....	1	.....	.....	.....	.....	.....	.....	1	0.
8	Drill				1	.....	.....	.....	1	1
9	Dynamite Cap.....				.....	.....	.....	1	1	0.1

Table 78—Concluded.

CAUSE.	DISTRICT.							The State.	Percentage.
	First.	Second	Third.	Fourth	Fifth	Sixth.	Seventh.		
, boiler.....						1		1	0.20
, gas.....	2						1	3	0.59
, powder.....		3	3	4	5	2	12	29	5.71
coal and other.....		4		3		4	5	16	3.15
al, clod, rock,.....	51	61	4	72	19	37	20	264	52.07
own shaft.....					1	2		3	0.59
to hopper.....							1	1	0.20
on scaffold.....							1	1	0.20
.....					3			3	0.59
l.....		2		3		3	4	12	2.37
el and iron....	1	1			1			3	0.59
.....					1	1	2	4	0.78
.....	1			1	1	2	1	6	1.18
.....							1	1	0.20
.....	14	21		21	20	21	26	123	24.26
blast.....			2				3	5	0.99
ars.....		1				3	1	5	0.99
.....				1				1	0.20
k (lifting).....							1	1	0.20
.....							1	1	0.20
.....				1				1	0.20
.....		2						2	0.39
.....				1			1	2	0.39
.....	70	96	9	111	56	81	84	507	100.00

disclosed 32 distinct causes resulting in the injuring of the
 byés. The last column of the table gives the percentages of
 ent causes and shows that falling roof and sides in the mines
 nsible for 52.07 per cent of all the causes, while pit-cars rep-
 .26 per cent; these two columns accounting for 76.33 per
 l causes, leaving 23.67 per cent as representing the other 30
 The number injured directly traceable to the use of powder
 nes was 53 or 10.45 per cent.

The non-fatal accidents for a series of 22 years, is shown as follows:

TABLE 79—*Non-Fatal Accidents from Falling Roof and Sides, and Other Causes, with Percentages Caused by Falling Roof—22 Years.*

YEAR.	NON-FATAL ACCIDENTS.				YEAR.	NON-FATAL ACCIDENTS.			
	Total.	Falling roof and sides.	All other causes.	Per cent caused by fall-ing roof or sides.		Total.	Falling roof and sides.	All other causes.	Per cent caused by fall-ing roof or sides.
1883	231	130	101	56.28	1895	605	338	267	55.87
1884	197	135	62	68.53	1896	672	373	299	55.51
1885	176	118	58	67.00	1897	518	310	208	59.85
1886	171	109	62	63.74	1898	438	252	186	60.87
1887	180	124	56	68.88	1899	597	335	262	56.12
1888	179	112	67	62.58	1900	611	323	288	52.96
1889	201	129	72	64.17	1901	422	233	189	55.21
1890	294	196	98	66.66	1902	406	198	208	48.77
1891	367	227	140	61.85	1903	410	190	220	46.34
1892	370	234	136	63.25	1904	507	264	243	52.07
1893	403	254	149	63.03					
1894	521	294	227	56.43	Totals ...	8,476	4,878	3,598	57.55

This table divides these accidents into two classes; those caused by falling roof and sides, and those brought about by all other causes; the final column shows the percentages for each year caused by falling roof and sides.

For the 22 years the record is that 4,878 or 57.55 per cent of the whole number of non-fatal accidents was caused by falling roof and sides in the mines.

This percentage is larger than for any one year since 1898.

A comparative table follows, giving the total number of the killed and injured for a series of 22 years, also the percentages caused by falling roof and sides.

—Total Number Killed and Injured, with Percentages
Accidents Caused by Falling Roof or Sides for 22 Years,

YEAR.	NUMBER.			PER CENT BY FALLING ROOF AND SIDES		
	Killed.	Injured.	Total.	Killed.	Injured.	Total.
.....	134	231	365	30	56.28	47.7
.....	46	197	243	56.5	68.53	66.25
.....	39	176	215	51.3	67	64.18
.....	52	171	223	61.5	63.74	63.23
.....	41	180	221	68.3	68.88	68.77
.....	55	179	234	60	62.58	61.97
.....	42	201	243	61.9	64.17	63.78
.....	53	294	347	67.9	66.66	66.86
.....	60	367	427	55	61.85	60.88
.....	57	370	427	49.1	63.25	61.36
.....	69	403	472	69.6	63.03	63.98
.....	72	521	593	58.3	56.43	56.82
.....	75	605	680	50.7	55.87	55.59
.....	77	672	749	53.3	55.51	55.27
.....	69	518	587	66.7	59.85	60.65
.....	75	438	513	57.33	60.87	60.34
.....	84	597	681	60.71	56.12	56.68
.....	94	611	705	54.3	52.86	53.1
.....	99	422	521	56.43	55.21	55.45
.....	99	406	505	55.55	48.77	50.1
.....	156	410	566	50.64	46.34	47.53
.....	157	507	664	49.68	52.07	51.51
two years	1,705	8,476	10,181	54.84	57.55	57.10

ng attention to the column of percentages, it will be seen number killed each year by falling roof and sides is equiva-.84 per cent for this term of years. This year shows 49.68 from these causes; only two other years, 1883 and 1892, show 50 per cent. Eight of these years the number was over 60 and in 1893 it was 70 per cent. As to the percentages of ed from the same causes this year it is 52.07 per cent, and l years 57.55 per cent.

o previous years show less than 50 per cent, while for 11 number was over 60 per cent.

The final column shows the percentage of both the killed and injured; for the series of years shown it was 57.10 per cent; last year and 1883 are the only years showing less than 50 per cent. The reading of the three final columns of the table will show the remarkably slight variation in these percentages.

The record of the increase or decrease in the number of employes, tons raised, and the killed and injured, is continued and shown by percentages for 22 years in the following table:

TABLE 81—Percentages of Increase and Decrease from Year to Year of Men Employed, Tons Produced, Men Killed and Men Injured for a Series of Twenty-two Years.

YEAR.	MEN EMPLOYED.		TONS PRODUCED.		KILLED.		INJURED.	
	Increase.	De-crease.	Increase.	De-crease.	Increase.	De-crease.	Increase.	De-crease.
1883 to 1884.....	6.83	.....	0.7	.....	.....	65.67	.....	14.72
1885 .....	.....	0.5	.....	3.06	.....	15.22	.....	10.66
1886	1.57	.....	.....	5.57	33.33	.....	.....	2.84
1887	3.71	.....	11.17	.....	.....	21.15	5.26	.....
1888	9.72	.....	15.34	.....	34.15	.....	.....	0.56
1889	2.26	.....	.....	2.17	.....	23.64	12.29	.....
1890 .....	.....	5.00	8.97	.....	26.2	.....	46.27	.....
1891	15.31	.....	2.53	.....	13.2	.....	24.83	.....
1892	2.07	.....	8.95	.....	.....	5.00	0.82	.....
1893	5.23	.....	16.91	.....	21.05	.....	8.92	.....
1894 .....	.....	7.78	.....	14.22	4.35	.....	29.28	.....
1895 .....	.....	2.06	3.64	.....	4.17	.....	16.12	.....
1896	3.42	.....	11.56	.....	2.67	.....	11.07	.....
1897	2.22	.....	1.45	.....	.....	10.4	.....	8.04
1898	3.66	.....	.....	7.34	8.7	.....	.....	15.44
1899	5.61	.....	26.00	.....	12.00	.....	36.3	.....
1900	6.47	.....	7.34	.....	1.19	.....	2.35	.....
1901	12.1	.....	5.88	.....	7.4	.....	.....	30.9
1902	4.21	.....	12.71	.....	7.4	.....	.....	3.8
1903	8.28	.....	16.44	.....	57.58	.....	0.99	.....
1904	1.00	.....	6.07	.....	0.64	.....	23.66	.....

For this year the men employed increased only 1 per cent, tons produced 6.07 per cent, the number killed 0.64 per cent and the number injured 23.66 per cent.

RECAPITULATIONS.

The final showing for the year is summed up in six recapitulation tables, giving by districts all the essential information reported concerning the industry by the several inspectors.

TABLE 82—*The State—Recapitulation by Districts—Shipping and Local Mines, Counties and Production—1904.*

DISTRICTS AND MINES.	Counties.	Number of mines.	Total tons of coal produced.	GRADED PRODUCT—TONS OF—					
				Mine run.	Lump.	Egg.	Nut.	Pea.	Slack or waste.
First	5	88	3,450,315	400,933	1,958,400	246,530	103,694	687,081	53,677
Shipping ...	5	41	3,322,268	353,402	1,902,003	243,003	101,709	673,503	48,648
Local	4	47	128,047	47,531	56,397	3,527	1,985	13,578	5,029
Second	8	171	3,322,490	248,320	2,402,619	11,664	28,176	524,250	107,461
Shipping ...	7	28	3,036,056	248,200	2,151,084	11,664	26,004	491,643	107,461
Local	8	143	286,434	120	251,535	.....	2,172	32,607	.....
Third	8	238	3,058,414	760,251	1,572,778	108,702	179,127	302,090	135,466
Shipping ...	6	55	2,707,067	699,264	1,298,998	108,702	178,827	287,897	133,379
Local	8	183	351,347	60,987	273,780	.....	300	14,193	2,087
Fourth	8	96	5,142,786	3,296,049	1,092,281	77,853	157,092	378,516	140,995
Shipping ...	7	46	4,901,660	3,181,689	1,003,882	77,213	145,441	356,775	136,660
Local	4	50	241,126	114,360	88,399	640	11,651	21,741	4,335
Fifth	9	102	7,280,287	1,714,991	3,555,651	113,434	219,322	1,475,917	200,972
Shipping ...	3	53	7,177,268	1,683,152	3,503,554	113,434	218,602	1,464,814	193,712
Local	8	49	103,019	31,839	52,097	.....	720	11,103	7,260
Sixth	5	117	8,634,726	2,346,064	4,418,919	59,868	253,938	1,290,060	265,877
Shipping ...	5	84	8,530,028	2,298,155	4,370,758	59,868	251,024	1,284,346	265,877
Local	2	33	104,698	47,909	48,161	.....	2,914	5,714	.....
Seventh	11	120	6,188,879	1,861,296	1,887,362	396,649	661,034	1,093,656	288,882
Shipping ...	8	73	6,105,170	1,805,423	1,866,724	394,788	659,615	1,091,661	286,959
Local	9	47	83,709	55,873	20,638	1,861	1,419	1,995	1,923
The State	54	932	37,077,897	10,627,904	16,888,010	1,014,700	1,602,383	5,751,570	1,193,330
Shipping ...	41	380	35,779,517	10,269,285	16,097,003	1,008,672	1,581,222	5,650,639	1,172,696
Local	43	552	1,298,380	358,619	791,007	6,028	21,161	100,931	20,634

TABLE 83 — *The State—Recapitulation by Districts—Value of Different Grades of Coal.*

DISTRICTS AND MINES.	Aggregate value of total product.	AGGREGATE VALUE OF THE DIFFERENT GRADES OF COAL AT THE MINES.					
		Mine run.	Lump.	Egg.	Nut.	Pea.	Slack or waste.
First.....	\$3,057,341	\$689,144	\$3,400,025	\$432,850	\$151,507	\$368,810	\$15,005
Shipping.....	\$4,811,973	\$605,289	\$3,259,692	\$426,546	\$149,323	\$367,653	\$13,471
Local.....	245,368	83,855	140,334	6,304	2,184	11,157	1,534
Second.....	\$4,916,565	\$372,766	\$4,052,428	\$20,179	\$38,616	\$356,813	\$75,763
Shipping.....	\$4,417,108	\$372,586	\$3,574,434	\$20,179	\$35,104	\$339,042	\$75,763
Local.....	499,457	180	477,994	.....	3,512	17,771	.....
Third.....	\$3,832,202	\$890,032	\$2,327,175	\$166,013	\$197,488	\$175,464	\$76,086
Shipping.....	\$3,302,085	\$814,408	\$1,880,893	\$166,013	\$197,113	\$168,651	\$75,007
Local.....	530,117	75,624	446,282	.....	375	6,813	1,023
Fourth	\$5,590,566	\$3,380,360	\$1,656,661	\$109,236	\$179,543	\$231,311	\$33,459
Shipping.....	\$5,244,615	\$3,244,199	\$1,482,860	\$108,212	\$161,829	\$215,717	\$31,798
Local.....	345,951	136,161	173,801	1,024	17,714	15,594	1,657
Fifth	\$7,594,588	\$1,752,991	\$4,468,964	\$138,774	\$246,820	\$893,580	\$93,459
Shipping.....	\$7,424,490	\$1,694,508	\$4,372,480	\$138,774	\$246,100	\$882,799	\$89,829
Local.....	170,098	58,483	96,484	.....	720	10,781	3,630
Sixth	\$7,797,173	\$2,101,758	\$4,905,566	\$67,854	\$195,783	\$507,925	\$18,291
Shipping.....	\$7,645,443	\$2,035,082	\$4,826,448	\$67,854	\$191,549	\$505,223	\$18,287
Local.....	151,730	66,676	79,118	.....	4,234	1,702	.....
Seventh	\$5,985,787	\$1,762,016	\$2,296,120	\$473,690	\$672,744	\$695,101	\$86,116
Shipping.....	\$5,880,266	\$1,694,228	\$2,265,642	\$470,662	\$670,970	\$693,659	\$85,105
Local.....	105,521	67,788	30,478	3,028	1,774	1,442	1,011
The State	\$40,774,222	\$10,949,067	\$23,106,939	\$1,408,596	\$1,682,501	\$3,229,004	\$398,116
Shipping.....	\$38,725,980	\$10,460,300	\$21,662,448	\$1,398,240	\$1,651,988	\$3,163,744	\$389,299
Local.....	2,048,242	488,767	1,444,491	10,356	30,513	65,260	8,816

TABLE 84—*The State—Recapitulation by Districts, Disposition of the Output—1904.*

DISTRICTS AND MINES.	DISTRIBUTION OF OUTPUT—TONS.			
	Shipped from mines.	Supplied to locomotives at mines.	Sold to local trade.	Consumed and wasted at mines.
.....	2,731,845	170,746	263,620	284,104
Shipping	2,731,845	170,746	178,025	241,652
Local .....	.....	.....	85,595	42,452
.....	2,768,018	52,361	372,608	129,503
Shipping	2,768,018	52,361	92,730	122,947
Local .....	.....	.....	279,878	6,556
.....	2,518,158	29,920	422,978	87,358
Shipping	2,518,158	29,920	73,518	85,471
Local .....	.....	.....	349,460	1,887
.....	4,204,553	202,776	511,611	223,846
Shipping	4,204,553	202,776	300,883	193,448
Local .....	.....	.....	210,728	30,398
.....	6,389,700	197,537	423,554	269,496
Shipping	6,389,700	185,141	338,686	263,741
Local .....	.....	12,396	84,868	5,755
.....	7,678,710	307,284	306,337	342,395
Shipping	7,678,710	307,284	206,507	337,527
Local .....	.....	.....	99,830	4,868
.....	5,487,276	262,475	220,904	218,224
Shipping	5,487,276	239,103	169,783	209,208
Local .....	.....	23,372	51,121	9,216
State	31,778,260	1,223,099	2,521,612	1,554,926
Shipping	31,778,260	1,187,331	1,360,132	1,453,794
Local .....	.....	35,768	1,161,480	101,132

TABLE 85—The State—Recapitulation by Districts, Hand and Machine Mining, Prices Paid, Machines—1904.

DISTRICTS AND MINES.	TONS MINED BY—		AVERAGE PRICE PAID PER TON FOR—		MACHINES.		Pow- der con- sumed.
	Hand.	Machine.	Hand mining.	Machine mining.	Number of mines using.	Number in use.	
First.....	3,450,315	.....	\$0.7865	.....	.....	.....	37,668
Shipping.....	3,322,268	.....	\$0.7863	.....	.....	.....	37,668
Local.....	128,047	.....	0.7925	.....	.....	.....	.....
Second.....	3,322,490	.....	\$0.7905	.....	.....	.....	45,667
Shipping.....	3,036,056	.....	\$0.7759	.....	.....	.....	37,948
Local.....	286,434	.....	0.946	.....	.....	.....	7,719
Third.....	3,058,414	.....	\$0.6267	.....	.....	.....	137,937
Shipping.....	2,707,067	.....	\$0.6067	.....	.....	.....	124,224
Local.....	351,347	.....	0.781	.....	.....	.....	13,713
Fourth.....	4,991,466	151,320	\$0.5642	\$0.4438	6	49	133,218
Shipping.....	4,750,340	151,320	\$0.5605	\$0.4438	6	49	127,679
Local.....	241,126	.....	0.637	.....	.....	.....	5,539
Fifth.....	4,964,218	2,316,069	\$0.5527	\$0.4725	16	156	213,490
Shipping.....	4,870,791	2,306,477	\$0.5473	\$0.4725	14	152	210,782
Local.....	93,427	9,592	0.8387	0.50	2	4	2,708
Sixth.....	4,997,494	3,637,232	\$0.5372	\$0.4749	32	333	188,710
Shipping.....	4,892,796	3,637,232	\$0.5352	\$0.4749	32	333	186,092
Local.....	104,698	.....	0.6283	.....	.....	.....	2,618
Seventh.....	5,153,073	1,035,806	\$0.4956	\$0.4209	13	85	166,729
Shipping.....	5,069,364	1,035,806	\$0.4952	\$0.4209	13	85	164,89
Local.....	83,709	.....	0.5202	.....	.....	.....	1,836
The State.....	29,937,470	7,140,427	\$0.6042	\$0.4659	67	623	920,633
Shipping.....	28,648,682	7,130,835	\$0.5933	\$0.4659	65	619	886,517
Local.....	1,288,788	9,592	0.7667	0.50	2	4	34,136

TABLE 86—*The State—Recapitulation by Districts, Value of Coal per Ton—1904.*

DISTRICTS AND MINES.	AVERAGE VALUE OF GRADED COAL AT THE MINES.						
	All grades.	Mine run.	Lump.	Egg.	Nut.	Pea.	Slack.
First.....	\$1.4657	\$1.7188	\$1.7361	\$1.7755	\$1.4611	\$0.537	\$0.2795
Shipping.....	\$1.4484	\$1.7127	\$1.7138	\$1.7753	\$1.4681	\$0.5313	\$0.2769
Local.....	1.9162	1.7642	2.4883	1.787	1.10	0.8217	0.3051
Second.....	\$1.4798	\$1.50	\$1.686	\$1.73	\$1.367	\$0.68	\$0.705
Shipping.....	\$1.4549	\$1.50	\$1.661	\$1.73	\$1.346	\$0.689	\$0.705
Local.....	1.7437	1.50	1.902	.....	1.617	0.545	.....
Third.....	\$31.253	\$1.1664	\$1.4796	\$1.527	\$1.102	\$0.581	\$0.5609
Shipping.....	\$1.2198	\$1.16	\$1.448	\$1.527	\$1.102	\$0.586	\$0.562
Local.....	1.5088	1.24	1.63	.....	1.25	0.48	0.49
Fourth.....	\$1.0871	\$1.0257	\$1.5172	\$1.403	\$1.1434	\$0.611	\$0.238
Shipping.....	\$1.07	\$1.0196	\$1.477	\$1.401	\$1.1113	\$0.605	\$0.233
Local.....	1.4347	1.195	1.974	1.60	1.524	0.714	0.383
Fifth.....	\$1.0432	\$1.0224	\$1.257	\$1.223	\$1.126	\$0.605	\$0.465
Shipping.....	\$1.0372	\$1.007	\$1.248	\$1.223	\$1.126	\$0.602	\$0.464
Local.....	1.6511	1.836	1.852	.....	1.00	0.971	0.50
Sixth.....	\$0.903	\$0.8958	\$1.11	\$1.1334	\$0.771	\$0.3937	\$0.1383
Shipping.....	\$0.8963	\$0.8855	\$1.1042	\$1.1334	\$0.7631	\$0.3941	\$0.1383
Local.....	1.4492	1.3917	1.6427	.....	1.453	0.2977	.....
Seventh.....	\$0.967	\$0.9457	\$1.2157	\$1.1938	\$1.0154	\$0.6425	\$0.3245
Shipping.....	\$0.9629	\$0.9373	\$1.2128	\$1.1917	\$1.0149	\$0.6423	\$0.323
Local.....	1.261	1.2132	1.4767	1.6265	1.25	0.723	0.5257
The State.....	\$1.0999	\$1.0303	\$1.3684	\$1.3899	\$1.0494	\$0.5613	\$0.3336
Shipping.....	\$1.0826	\$1.0186	\$1.3459	\$1.3879	\$1.0441	\$0.5598	\$0.3311
Local.....	1.5775	1.3629	1.8261	1.718	1.4419	0.6466	0.4291

TABLE 87—*The State—Recapitulation by Districts, Employes, Days in Operation—1904.*

DISTRICTS AND MINES.	EMPLOYES.					Average days of operation.	CASUALTIES.	
	Miners.	Others under ground.	Boys under ground.	All above ground.	Total.		Killed.	Injured.
First	5,840	1,307	220	671	8,038	215	13	70
Shipping	5,565	1,288	220	625	7,698	227	...	...
Local	275	19	.....	46	340	215	.....	.....
Second	5,373	1,218	197	574	7,362	188	7	96
Shipping	4,657	1,181	196	474	6,508	231	.....	.....
Local	716	37	1	100	854	178	.....	.....
Third	3,472	754	95	487	4,808	193	16	9
Shipping	2,698	696	85	370	3,849	220	.....	.....
Local	774	58	10	117	959	183	.....	.....
Fourth	4,967	1,357	267	702	7,293	197	29	111
Shipping	4,581	1,311	257	638	6,787	214	.....	.....
Local	386	46	10	64	506	181	.....	.....
Fifth	6,349	1,943	273	976	9,541	186	27	56
Shipping	6,139	1,926	271	925	9,261	202	.....	.....
Local	210	17	2	51	280	169	.....	.....
Sixth.....	6,632	1,726	307	1,000	9,665	207	35	81
Shipping	6,472	1,705	301	955	9,433	208	.....	.....
Local	160	21	6	45	232	205	.....	.....
Seventh	5,351	1,507	203	1,003	8,067	202	30	84
Shipping	5,182	1,489	201	976	7,848	207	.....	.....
Local	169	18	2	27	219	137	.....	.....
The State	37,987	9,812	1,562	5,413	54,774	198	157	507
Shipping	35,294	9,596	1,531	4,963	51,384	213	.....	.....
Local	2,693	216	31	450	3,390	185	.....	.....

VENTILATING FANS AT COAL MINES.

ventilation in mines is considered one of the most important ones in connection with coal mining; the improvements in this year have been gradual but very complete.

This year is the first that any attempt has been made to collect reliable statistics on the subject of fans in use at the mines in the

following table presents the record by districts, giving the names of the operators; the location of the mines, the number of employees underground at each mine; the size and capacity in cubic feet per minute of the fan; also the name of the fans.

TABLE 88—*Ventilating Fans at Illinois Coal Mines—1904.*

FIRST DISTRICT.

NAME OF OPERATOR.	Postoffice address and location of mine.	Number of employees underground.	FAN.		Name.
			Diameter—feet.	Capacity—cubic feet per minute.	
Ill. & Ver. Coal Co., No. 1	So. Wilm'gt'n	566	18	75,000	Crawford & McCrimmon
Ill. & Ver. Coal Co., No. 2	So. Wilm'gt'n	361	15	60,000	Crawford & McCrimmon
Co Car Coal Co., Union	La Salle	345	14	75,000	H. Wood
Co Car Coal Co., No. 1	LaSalle	340	14	100,000	Home made
Ill. & Ver. Coal Co., No. 2	Streator	313	10	70,000	Cyclone
Ill. M'g & Mfg Co., No. 4	Diamond	298	15	80,000	Crawford & McCrimmon
Co Car C. Co., Rockwell	LaSalle	292	8	65,000	Kangley
Ill. Wil. Coal Co., No. 3	Coal City	288	12	75,000	Crawford & McCrimmon
Co Car C. Co., LaSalle	LaSalle	282	14	70,000	Guibal
Ill. Coal Co., No. 5	Braceville	280	14	50,000	Guibal
& Cavanaugh, No. 5	Carbon Hill	272	8	60,000	Cyclone
Coal Co.	Streator	267	8	50,000	Cyclone
Ill. M'g. & Mfg. Co., No. 5	Diamond	256	15	125,000	Crawford & McCrimmon
Ill. Coal Co.	Oglesby	252	11	100,000	Capell
Ill. & Ver Coal Co., No. 1	Streator	239	8	65,000	Cyclone
Ill. Coal Co., No. 2	Kangley	224	10	60,000	Cyclone
Hakes	Rutland	210	16	50,000	Kangley
Ill. Coal Co., No. 6	Coal City	207	10	60,000	Guibal
Ill. Wil Coal Co., B	Clark City	182	16	50,000	Crawford & McCrimmon
Ill. Wil. Coal Co. No. 2	Coal City	179	12	75,000	Crawford & McCrimmon
Ill. Mining Co., No. 5	Coal City	170	14	80,000	Guibal
Ill. Coal Co.	Peru	158	15	40,000	Crawford & McCrimmon

Table 88.—Continued.

Number.	NAME OF OPERATOR.	Postoffice address and location of mine	Number of employes under ground.	FAN.		
				Diameter—feet.	Capacity—cubic feet per minute.	Name.
23	Cardiff Coal Co., No. 2	Cardiff . . .	138	14	100,000	Wm. Bagley & Sons . .
24	Taylor & Cavanaugh, No. 4 . . .	Carbon Hill	137	12	75,000	Crawford & McCrimmon
25	Illinois Zinc Co.	Peru	119	15	60,000	Crawford & McCrimmon
26	Big Four Wil. Coal Co., No. 6	Elleen	107	16	125,000	Crawford & McCrimmon
27	Joliet-Wilmington Coal Co. . .	Braidwood	92	8	25,000	Erie
28	Mattheissen & Hegeler Zinc Co.	LaSalle . . .	86	10	50,000	Home made.
29	Murphy Keenan & Co	Braidwood	74	8	25,000	Cole
30	Rixon Coal Co	Braidwood . .	72	16	75,000	Crawford & McCrimmon
31	Marseilles Coal & Mining Co	Marseilles . .	69	10	10,000	Not given
32	Beggs, Davis & Co	Fairbury..	33	8	25,000	Parker
33	North Wil. Coal Co., No. 1	Seneca . . .	27	3	10,000	Not given
34	Wil. Star Mining Co., No. 7.	Coal City	24	20	150,000	Guibal
35	Brady Coal Co.	Pontiac . . .	20	6	15,000	Not given
36	Streator Clay Mfg. Co.	Streator . . .	15	14	40,000	Crawford & McCrimmon
37	Espley & Handwerk	Morris . . .	10	6	10,000	Not given
38	J. K. Telfer.	Morris . . .	10	5½	8,000	Not given
39	Star Coal Co. No. 4.	Kangley . . .	10	6	10,000	Cyclone

SECOND DISTRICT.

Number.	NAME OF OPERATOR.	Postoffice address and location of mine.	Number of employes under ground.	FAN.		
				Diameter—feet.	Capacity—cubic feet per minute.	Name
1	Spring Valley Coal Co. No. 2 .	Spring Valley	740	12½	150,000	Capell
2	Spring Valley Coal Co. No. 1	Spring Valley	710	12½	150,000	Capell
3	Spring Valley Coal Co. No. 3 .	Spring Valley	707	12½	150,000	Capell
4	Devlin Coal Co	Toluca	586	20	100,000	Duncan
5	Illinois 3d Vein Coal Co. No. 1	Ladd.	527	12½	150,000	Capell
6	Marquette 3d Vein Coal Co. No. 1	Marquette	475	12	60,000	Brunner
7	Spring Valley Coal Co. No. 4 .	Seatonville	461	10	75,000	Murphy

Table 88—Continued.

SECOND DISTRICT—Concluded.

NAME OF OPERATOR.	Postoffice address and location of mine.	Number of employes under ground.	Diameter—feet.	FAN.	
				Capacity—cubic feet per minute	Name.
Valley Coal Co. No. 5.	Spring Valley.	433	8	60,000	Murphy
Coal Co. No. 3	Gilchrist	257	12	50,000	Frost Mfg. Co
Coal Co. No. 1	Wenona	240	20	150,000	Duncan
Valley Mining Co. No. 2 .	Sherrard	202	16	60,000	Home made.....
Coal Co. No. 2	Wanlock.. . .	135	16	50,000	Crawford & McCrimmon
Coal Co. No. 4.....	Wanlock.....	106	12	50,000	Crawford & McCrimmon
Coal & Mining Co.	Kewanee	95	8	20,000	Cole
Valley Mining Co. No 2	Cable	75	18	60,000	Home made.. . . .
ing Coal Co	Wyoming	42	12	60,000	Ottumwa
City Coal Co. No. 1	Yates City....	38	12	20,000	Ottumwa.....
Mining Co. No. 2.....	Carbon Cliff. .	38	10	20,000	Barnard & Leas
ette Third Vein Coal Co	Sparland.....	37	10	10,000	Cole
ryce & Son.....	Coal Valley . .	27	4	10,000	Barnard & Leas
Coal Co. No. 1.....	Galva	26	8	15,000	Home made.. . . .
n Coal Co. No. 16	Galva	26	8	18,000	Home-made.....
lle Bros.....	Coal Valley . .	25	6	10,000	Home-made.....
n Coal Co. No. 15	Galva	22	4	6,000	Home-made
lynd & Sons	Moline	18	6	10,000	Home-made.....
Coal Mining & Mfg. Co .	Kewanee	17	10	20,000	Home-made.....
n & Higbee	Wyoming	17	8	10,000	Armentrout
J. Essex	Galesburg . . .	15	9	8,000	Home made.....
Fairlie	Cambridge . .	11	6	8,000	Home-made.. . . .
Lilliman.. . . .	Cable	11	8	10,000	Not given
Peterson.. . . .	Cable.	7	6	8,000	Home made... ..

Table 88—Continued.

THIRD DISTRICT.

Number.	NAME OF OPERATOR.	Postoffice address and location of mine	Number of employes under ground.	Diameter—feet.	Capacity—cubic feet per minute	FAN.
						Name.
1	Monmouth Coal Co., No 1. . .	Brereton . .	237	12	50,000	Ottumwa.
2	Whitebreast Fuel Co. of Ill., E	Dunfermline.	212	14	125,000	Ottumwa
3	Maplewood Coal Co., Bk. Hawk	Peoria. . . .	193	12	100,000	Buffalo Forge Co . .
4	Wabash Coal Co	Athens . .	160	12	45,000	Crawford & McCrimmon
5	Greenview Coal Co.	Greenview. .	140	16	80,000	Crawford & McCrimmon
6	Whitebreast Fuel Co. of Ill., C	Dunfermline.	122	12	50,000	Ottumwa.
7	Clark Coal & Coke Co	Peoria. . . .	120	12	60,000	Crawford & McCrimmon
8	Applegate & Lewis.	Cuba . .	119	12	30,000	Ottumwa.
9	Norris Coal Mining Co.	Norris . . .	117	14	50,000	Home Made.
10	Athens Mining Co.	Athens. .	109	12	50,000	Crawford & McCrimmon
11	Sholl Bros	Peoria. . . .	100	12	50,000	Crawford & McCrimmon
12	Central Coal Mining Co.	St. David. .	103	12	50,000	Duncan
13	Newsam Bros.	Peoria. . . .	91	12	50,000	Crawford & McCrimmon
14	East Cuba Coal Co.	Cuba.	85	12	30,000	Robinson
15	Newsam Bros.	Peoria. . . .	78	10	25,000	Crawford & McCrimmon
16	Howarth & Taylor.	Edwards . .	72	12	50,000	Crawford & McCrimmon
17	Phoenix Coal Co	Peoria. . . .	71	10	50,000	Crawford & McCrimmon
18	Newsam Bros.	Farmington	64	10	25,000	Crawford & McCrimmon
19	Scripps Coal Co.	Astoria . . .	61	10	15,000	Home Made.
20	Central Coal & Coke Co. . . .	Elmwood . .	61	12	50,000	Cole.
21	Tallula Coal Co.	Tallula . . .	57	10	15,000	Crawford & McCrimmon
22	Farmington Coal Co	Farmington	54	12	50,000	Crawford & McCrimmon
23	Vickery Bros	Peoria. . . .	51	8	15,000	Home Made.
24	Tazewell Coal Co	Pekin	51	12	25,000	Crawford & McCrimmon
25	Whitebreast Fuel Co. of Ill., D	St. David . . .	50	12	50,000	Crawford & McCrimmon
26	Canton Union Coal Co.	Canton . . .	50	10	25,000	Crawford & McCrimmon
27	Rippetoe & Rundle	Colchester. .	50	8	16,000	Not given
28	Wohlschlag Co-Opp. Coal Co	Peoria. . . .	50	12	25,000	Home Made.
29	South Mountain Coal Co.	Petersburg. .	49	12	25,000	Crawford & McCrimmon
30	W. E. Foley.	Canton. . . .	44	12	50,000	Eagle Iron Works. . . .
31	Petersburg Coal Mining Co . . .	Petersburg. .	43	10	25,000	Crawford & McCrimmon
32	Third Vein Coal Co.	Orchard Mines	42	12	25,000	Crawford & McCrimmon

Table 88—Continued.

THIRD DISTRICT—Concluded.

NAME OF OPERATOR.	Postoffice address and location of mine.	Number of employes under ground.	FAN.		Name.
			Diameter feet.	Capacity—cubic feet per minute	
o Opp. Coal Co.,	Bartonville ..	41	10	25,000	Crawford & McCrimmon
Bros.	Peoria. . .	40	8	12,000	Crawford & McCrimmon
Bros.	Peoria.	37	8	12,000	Crawford & McCrimmon
s & Bros.	Kramm.....	37	10	25,000	Crawford & McCrimmon
wn Coal Co....	Middletown	36	10	25,000	Crawford & McCrimmon
oal Co....	Petersburg. .	31	8	18,000	Cole.....
oal Co.	Canton.	31	10	25,000	Crawford & McCrimmon
e Coal & Mining Co	Peoria... ..	31	10	34,000	Home Made.....
Coal Co.....	Peoria	30	14	30,000	Home-made.....
mm & Bro.....	Peoria	29	12	50,000	Crawford & McCrimmon
al Co.....	Peoria	25	7	15,000	Crawford & McCrimmon
nt & Son.. . .	Peoria	24	10	25,000	Not given
ver Coal Co.....	Galesburg ...	22	10	25,000	Crawford & McCrimmon
nnings	East Peoria ..	31	10	20,000	Home-made.....
oal Co.....	Peoria	17	8	10,000	Home-made.....
Co-Operative Coal Co.	Bartonville..	16	10	20,000	Crawford & McCrimmon
Coal Co.	Bartonville.	16	10	20,000	Cole
& Son.....	Pekin	14	12	50,000	Crawford & McCrimmon
lerideth	Augusta..	12	8	12,000	Not given
& Sneddon	Peoria	12	12	20,000	Crawford & McCrimmon
ritz.	Galesburg ..	7	12	40,000	Cole
vering & Co.	Petersburg .	7	8	10,000	Home-made.....
Co	Bartonville.	7	8	15,000	Home-made
oal Co.	Peoria	7	12	25,000	Crawford & McCrimmon
oal Co.	Peoria	7	5	8,000	Home-made. . . .
er & Co.	East Peoria	6	8	15,000	Crawford & McCrimmon
r Bros.	Pekin	6	8	10,000	Home-made.....
n Coal Co.	East Peoria .	6	10	25,000	Cole
atkinson	Colchester ...	5	4	10,000	Not given
al Co.....	Peoria	4	10	20,000	Cole

Table 88—Continued.

FOURTH DISTRICT.

Number.	NAME OF OPERATOR.	Postoffice address and location of mine.	Number of employes under ground.	Diameter—feet.	FAN.	
					Capacity—cubic feet per minute.	Name of.
1	Kellyville Coal Co. No. 3	Westville .	436	20	120,000	Crawford & McCrimmon
2	Westville Coal Co. No. 1.....	Westville	420	20	100,000	Crawford & McCrimmon
3	Kellyville Coal Co. Himrod ...	Himrod	414	20	256,900	Holmes Bros
4	Kellyville Coal Co. No. 2	Kellyville .	332	12 15	74,000	Crawford & McCrimmon
5	Kellyville Coal Co. No. 4	Westville	306	10	200,000	Murphy
6	Kellyville Coal Co. Pawnee	Westville .	283	20	70,000	Crawford & McCrimmon
7	Kellyville Coal Co. No. 5	Westville ..	277	7	78,000	Murphy.....
8	Latham Coal Co	Lincoln	275	12	100,000	Robinson.....
9	Springfield Coal & Mining Co	Taylorville	248	24	150,000	Duncan
10	McLean Co. Coal Co	Bloomington	248	20	50,000	Not given
11	Jones & Adams	Catlin	232	20	100,000	Crawford & McCrimmon
12	Roanoke Coal Mining Co.....	Roanoke....	220	12	50,000	Cole
13	Penwell Coal Co	Pana	200	20	100,000	Dixon
14	Newbent Coal Co.	Pana	195	16	30,000	Guibal
15	Assumption Coal & Mining Co	Assumption	171	14	60,000	Devlin
16	Moweaqua Coal Min. & Mfg Co	Moweaqua	164	20	80,000	Litchfield.....
17	Pana Coal Co	Pana	156	18	80,000	Litchfield.. ..
18	Manufacturers Fuel Co.....	Pana	154	20	30,000	Crawford & McCrimmon
19	Economy Coal Mining Co	Danville	145	10	50,000	Crawford & McCrimmon
20	Citizens Coal Mining Co	Lincoln... ..	136	15½	30,000	Crawford & McCrimmon
21	Lincoln Coal Co	Lincoln.....	133	12	25,000	Crawford & McCrimmon
22	John O'Connell Coal Co.	Danville	113	12	60,000	Not given
23	Consolidated Coal Co	Fairmount	94	10	28,000	Home made... ..
24	Electric Coal Co... ..	Danville ..	82	15	80,000	Crawford & McCrimmon
25	Colfax Coal Co	Colfax ..	82	10	30,000	Crawford & McCrimmon
26	Westville Coal Co	Westville ..	62	20	100,000	Danville
27	E. S. Gray	Danville .	44	10	30,000	Crawford & McCrimmon
28	Manufacturers & Consumers Coal Co	Decatur.....	35	16	100,000	Duncan
29	Home Coal Co	Mt. Pulaski	32	16	40,000	Crawford & McCrimmon
30	F. W. Davis	Muncie	30	8	30,000	Crawford & McCrimmon
31	Consumers Coal Co	Chenoa	26	20	50,000	Crawford & McCrimmon
32	Mauck Bros	Danville	21	10	50,000	Crawford & McCrimmon

Table 88—Continued.

FOURTH DISTRICT—*Concluded.*

NAME OF OPERATOR.	Postoffice address and location of mine.	Number of employes under ground.	Diameter—feet.	Capacity—cubic feet per minute.	FAN.
					Name.
W. S. Fos	Danville	17	4	40,000	Not given
W. S. Fos	Grape Creek	16	6	50,000	Champion
W. S. Fos	Findlay	16	5	10,000	Home made
W. S. Fos	Colison	13	8	80,000	Crawford & McCrimmon
W. S. Fos	Oakwood	12	10	50,000	Crawford & McCrimmon
W. S. Fos	Oakwood	10	8	60,000	Champion
W. S. Fos	Paris	10	10	20,000	Robinson
W. S. Fos	Edinburg	9	12	60,000	Crawford & McCrimmon
W. S. Fos	Shelbyville . .	8	8	15,000	Home made
W. S. Fos	Danville	6	8	40,000	Not given

FIFTH DISTRICT.

NAME OF OPERATOR.	Postoffice address and location of mine.	Number of employes under ground.	Diameter—feet.	Capacity—cubic feet per minute.	FAN.
					Name.
Wilm. & Ver. Coal Co	Thayer	370	20	200,000	Crawford & McCrimmon
Viriden Coal Co	Viriden	355	20	85,000	Duncan
Adams	Springfield	311	20	150,000	Crawford & McCrimmon
Viriden Coal Co, No. 2	Auburn	304	20	200,000	Duncan
W. S. Fos	Pawnee	273	20	180,000	Litchfield
W. S. Fos	Divernon	241	22	150,000	Home made
W. S. Fos	Staunton	240	20	80,000	Home made
W. S. Fos	Riverton	237	16	100,000	Home made
W. S. Fos	Girard	214	20	80,000	Litchfield
W. S. Fos	Mt. Olive	210	30	120,000	Home made
W. S. Fos	Springfield . . .	208	16	75,000	Crawford & McCrimmon
W. S. Fos	Greenridge . . .	204	15	55,000	Litchfield

Table 88—Continued.

FIFTH DISTRICT—Continued.

Number.	NAME OF OPERATOR.	Postoffice address and location of mine.	Number of employes under ground.	FAN.		
				Diameter—feet.	Capacity—cubic feet per minute.	Name
13	Madison Coal Co., No. 5.....	Mt. Olive.	202	22	85,000	Home made..
14	Consolidated Coal Co., No. 7....	Staunton.....	202	22	85,000	Duncan
15	Woodside Coal Co.....	Springfield ...	202	14	100,000	Duncan
16	Springfield Coal & M. Co., No. 4	Springfield ...	197	22	200,000	Duncan
17	Springfield Coal & M. Co., No. 5	Springfield ...	185	14	50,000	Crawford & M
18	Consolidated Coal Co., No. 10...	Mt. Olive.....	184	30	120,000	Home made..
19	Montgomery Coal Co.....	Paisley	180	12	50,000	Crawford & M
20	Springfield Coöperative Coal Co	Springfield ...	177	18	60,000	Ætna
21	Viriden Coal Co.....	Viriden	167	15	42,000	Crawford & M
22	Sangamon Coal Co.....	Springfield ...	167	14	90,000	Crawford & M
23	Springfield Coal & M. Co., No. 1	Riverton.....	161	20	100,000	Danville
24	West End Coal Co.....	Springfield ...	160	15	75,000	Crawford & M
25	Hillsboro Coal Co.....	Hillsboro	159	12	50,000	Crawford & M
26	Chicago-Viriden Coal Co.....	Chatham.....	156	15	75,000	Duncan
27	Wilmington & Springfield C.Co	Springfield ...	152	20	120,000	Ætna
28	Carlinville Coal Co.....	Carlinville	147	20	75,000	Litchfield
29	Spaulding Coal Co.....	Bissell	147	20	100,000	Ætna
30	Springfield Coal & M. Co., No. 3	Springfield ...	141	14	50,000	Crawford & M
31	Auburn & Alton Coal Co.....	Auburn	134	15	100,000	Duncan
32	Spaulding Coal Co., No. 1.....	Spaulding	134	14	60,000	Crawford & M
33	Barclay Coal Mining Co.....	Barclay	130	15	75,000	Crawford & M
34	Cantrall Coöperative Coal Co...	Cantrall	129	15	100,000	Duncan
35	Consolidated Coal Co.....	Gillespie.....	124	8	50,000	Champion
36	Citizens' Coal & Mining Co., B.	Springfield ...	124	12	60,000	Crawford & M
37	Wabash Coal Co., No. 1.....	Dawson	121	12	50,000	Crawford & M
38	Royal Colliery Co.....	Viriden.	119	8	32,000	Robinson.....
39	Jefferson Coal Co.....	Springfield ...	115	16	100,000	Ætna
40	Citizens' Coal Mining Co., A....	Springfield ...	114	14	50,000	Home make..
41	Williamsville Coal Co.....	Selbytown....	113	12	60,000	Crawford & M
42	Litchfield Mining & Power Co..	Litchfield.....	108	12	50,000	Crawford & M
43	Manufacturers' Fuel Co.....	Nilwood	98	6	25,000	Crawford & M
44	Clover Leaf Coal Co.....	Coffeen.....	91	10	40,000	Crawford & M

Table 88—Continued.

FIFTH DISTRICT—Concluded.

NAME OF OPERATOR	Postoffice address and location of mine.	Number of employes under ground.	Diameter—feet.	Capacity—cubic feet per minute	FAN
					Name.
Coal Co	Sherman	66	13½	350,000	Capell
ted Coal Co	Hornshy. .	64	12	40,000	Crawford & McCrimmon
Springfield Coal Co ...	Springfield .	51	22	200,000	Duncan
ted Coal Co., No. 14.	Staunton	48	22	85,000	Duncan
Coal Co	Keys	47	20	100,000	Ætna
ial Co	Pleasant Pl'ns	46	12	60,000	Crawford & McCrimmon
ark Coal Mining Co	Springfield	37	12	30,000	Crawford & McCrimmon
ates & Co	Winchester.	32	7	18,000	Crawford & McCrimmon
& Co	Bunker Hill .	12	10	25,000	Crawford & McCrimmon
ress Brick Co	Golden Eagle	11	4	10,000	Murphy
l Co	Raymond.....	9	10	40,000	Crawford & McCrimmon

SIXTH DISTRICT.

NAME OF OPERATOR.	Postoffice address and location of mine.	Number of employes under ground.	Diameter—feet.	Capacity—cubic feet per minute	FAN.
					Name.
s. Coal & Coke Co. No. 1	Collinsville.	498	20	120,000	Duncan.. .. .
& Davis, Nos 3 and 4	Centralia...	412	20	150,000	Crawford & McCrimmon
s. Coal & Coke Co. No. 3	Troy	362	20	120,000	Duncan
s. Coal & Coke Co. No. 2	Collinsville .	342	22	130,000	Duncan.. .. .
Coal Co., No. 1. . . .	Staunton	274	22	150,000	Duncan.....
Min'g & Mfg. Co. No. 2	Centralia.....	268	20	60,000	Crawford & McCrimmon
Coal Co., No. 4	Glen Carbon..	235	22	130,000	Home made ..
oal Co	Sorento.....	227	14	40,000	Not given.
l Co	Odin..	220	14	50,000	Cole
& O'Fallon Coal Co.	Belleville.. .	211	16	100,000	Not given.
ntlewald Coal Co. No. 1	Worden	209	16	100,000	Litchfield
Coal Co., No. 2.,	Glen Carbon.	205	22	130,000	Home made.

Table 88—Continued.

SIXTH DISTRICT—Continued

Number.	NAME OF OPERATOR.	Postoffice address and location of mine.	Number of employes under ground.	FAN.		
				Diameter—feet.	Capacity—cubic feet per minute	Name
13	Trenton Coal Co.....	Trenton.....	195	14	30,000	Pump & Ske
14	Sandoval Coal Co....	Sandoval.....	195	20	30,000	Crawford & J
15	Muren Coal & Ice Co	New Haden..	193	15	30,000	Pump & Ske
16	Lumaghi Coal Co., No. 2	Collinsville .	191	6	65,000	Bullock....
17	Consolidated Coal Co.	Breese . . .	180	10	32,000	Crawford & J
18	Breese Coal Co	Breese . . .	174	20	75,000	Aetna.. .
19	Muren Coal & Ice Co.	Belleville....	174	14	50,000	Not given.
20	Royal Coal Co	Belleville....	145	20	150,000	Duncan..
21	Madison Coal Co. No. 3.	Edwardsville .	137	15	60,000	Not given. .
22	Consolidated Coal Co. Abby No. 3	Collinsville .	126	20	127,000	Stokett. . .
23	Kolb Coal Co.	Mascoutah....	110	15	64,000	Not given ..
24	Superior Coal & Mining Co.	Belleville.. .	107	20	130,000	Herzler & H
25	Consolidated Coal Co....	Trenton	107	20	50,000	Stokett.
26	Consalt'd Coal Co., Heinz Bluff	Collinsville .	106	12	27,000	Crawford & J
27	Joseph Taylor, Mentor.	O Fallon.....	106	12	30,000	Not given.
28	Lebanon Coal & Mining Ass'n	Lebanon.....	105	12	25,000	Not given...
29	Glendale Coal Co., No. 1....	Belleville....	96	10	20,000	Not given..
30	Joseph Guest & Son.	Belleville....	92	12	40,000	Crawford & J
31	Joseph Taylor, Taylor	O'Fallon.....	89	8	30,000	Ellison
32	Madison Coal Co. No. 7.	Belleville. . .	86	12	35,000	Not given. .
33	Walnut Hill Coal Co.....	Belleville....	84	15	50,000	Herzler & H
34	Germantown Coal Co.....	Germantown .	82	10	20,000	Stokett... .
35	Mo. & Ill. Coal Co., Rentchler.	Belleville.. .	79	15	50,000	Not given.. .
36	Kolb Coal Co.....	Mascoutah...	72	12	75,000	Not given.
37	Eureka Coal Co.....	Marissa.....	64	15	100,000	Herzler & H
38	Tirre Coal Co.....	Lensburg.....	64	10	20,000	Pump & Ske
39	Geo. Hippard.	Belleville....	63	14	100,000	Ellison.. .
40	Lumaghi Coal Co. No. 3... .	Collinsville ...	63	10	30,000	Not given. . .
41	Dutch Hollow Coal Co., Oakland	Belleville....	62	10	20,000	Pump & Ske
42	Geo. Hippard, Walnut Valley	Belleville....	61	10	30,000	Herzler & H
43	Henrietta Coal Co	Edwardsville	60	15	50,000	Duncan.....
44	Daniel Zildorph.....	Marissa . . .	59	8	20,000	Crawford & J
45	Dutch Hollow Coal Co., Randle	Freeburg . . .	59	8	15,000	Ellison.....

Table 88—Continued.

SIXTH DISTRICT—Continued.

NAME OF OPERATOR.	Postoffice address and location of mine.	Number of employes under ground.	FAN.		
			Diameter—feet.	Capacity—cubic feet per minute	Name.
Har- & Mining Co., Har-	Belleville..	59	12	20,000	Not given.....
'd Coal Co., Brookside	Troy	58	10	22,000	Crawford & McCrimmon
ial Co. No. 1.	Marissa	57	8	30,000	Crawford & McCrimmon
& O'Fallon	Belleville.....	57	9	30,000	Pump & Skein.....
ran	Caseyville	56	8	20,000	Not given.
al Co.	Birkner	56	10	40,000	Not given.
al Co	Belleville..	55	10	20,000	Not given.....
Coal Co	Belleville.....	54	10	20,000	Not given....
Coal & Mining Co	Worden.	52	12	50,000	Not given.
Coal Co	Marissa	52	12	20,000	Ellison
Coal & Mining Co ..	O'Fallon ...	51	9	20,000	Ellison.. ..
Coal Co., St Clair ..	Belleville	50	10	18,000	Not given... ..
Mining Co., No. 1 ..	Staunton.	45	22	150,000	Duncan.... ..
ed Coal Co., Schure-	Belleville..	42	10	20,000	Crawford & McCrimmon
Coal Co., Wilderman	Belleville . .	42	12	23,000	Not given.
ed Coal Co., White ..	Marissa ...	42	10	16,000	Crawford & McCrimmon
ed Coal Co., Gartside	Belleville..	42	10	20,000	Crawford & McCrimmon
s. Coal & Coke Co., ..	Belleville... ..	40	8	10,000	Not given.... ..
illow Coal Co., Ad-	Marissa	36	10	20,000	Blakeslee
Coal Co	Belleville..	36	9	18,000	Not given.
Coal Mining Co ...	Belleville..	34	8	15,000	Not given.
al Co	Belleville..	34	8	20,000	Not given.
Coal Co.	Kinmundy.	32	12	20,000	Cole
Coal Co.	Belleville..	31	8	10,000	Not given.
ed Coal Co., Green ..	Belleville..	30	10	20,000	Crawford & McCrimmon
rior Coal Co.	Belleville.....	30	8	12,000	Pump & Skein.
ed Coal Co., Richland	Belleville..	30	10	16,000	Crawford & McCrimmon
Coal Co.	Freeburg... ..	28	9	20,000	Not given.... ..
Mining Co.,	Rentchler....	24	8	20,000	Ellison.

Table 88—Continued.

SIXTH DISTRICT—Concluded..

Number.	NAME OF OPERATOR.	Postoffice address and location of mine.	Number of employes under ground.	FAN.		
				Diameter—feet.	Capacity—cubic feet per minute	Name
75	Consolidated Coal Co., Rose Hill	Belleville. . . .	24	10	20,000	Crawford & M
76	Pittsburg Mining Co.	Belleville.. . .	23	10	45,000	Pump & Skem
77	Chas. Hortman	Belleville.. . .	23	12	24,000	Pump & Skem
78	Home Trade Coal Co.	Edwardsville	22	10	35,000	Not given.
79	Joseph Taylor, St. Ellen	O'Fallon,	21	3	10,000	Buffalo.. . .
80	Lenz Coal & Mining Co., Shiloh	Belleville.. . .	17	16	60,000	Ellison
81	Dutch Hill Coal Co.	New Athens . .	14	4	10,000	Not given.
82	Salem Coal Co.,	Salem	10	8	10,000	Cole
83	Frank Sargeant	Belleville.. . .	10	5	10,000	Not given . . .
84	Bullock Bros. Coal Co.	Collinsville.. .	9	10	30,000	Crawford & M
85	August Ebel	Belleville.. . .	8	6	10,000	Not given. . . .
86	Tower Grove Coal Co.	Belleville.. . .	8	5	10,000	Not given.
87	James Beatty	Mascoutah . . .	5	5	10,000	Not given.

SEVENTH DISTRICT.

Number.	NAME OF OPERATOR.	Postoffice address and location of mine.	Number of employes under ground.	FAN.		
				Diameter—feet.	Capacity—cubic feet per minute	Name
1	Big Muddy Coal & Iron Co., No. 7.	Herrin	828	20	120,000	Crawford & M
2	Sunnyside Coal Co., No. 1.	Herrin	273	20	100,000	Crawford & M
3	Chicago & Carterville Coal Co., No. 1.	Herrin	271	20	100,000	Crawford & M
4	Big Muddy Coal & Iron Co., No. 6	Murphysboro. .	270	15	80,000	Crawford & M
5	Big Muddy Coal & Iron Co., Harrison	Murphysboro. .	247	24	70,000	Murphy
6	Willis Coal & Mining Co., No. 1	Willisville . . .	233	22	150,000	Duncan
7	Muddy Valley Min. & Mfg. Co.	Hallidayboro . .	230	16	90,000	Blakeslee . . .
8	St. Louis & Big Muddy Coal Co.	Dewmaine	227	20	240,000	Crawford & M

Table 88—Continued.

SEVENTH DISTRICT—Continued.

NAME OF OPERATOR	Postoffice address and location of mine.	Number of employees under ground.	FAN.		
			Diameter—feet.	Capacity—cubic feet per minute	Name.
Walnut Coal Co.....	Pinckneyville	195	20	130,000	Blakeslee
Manufacturers Fuel Co., Jupiter	Duquoin.....	189	12	50,000	Not given....
Coal Min. & Washing No. 3.....	Marion	179	20	160,000	Crawford & McCrimmon
Coal Min. & Washing No. 2.....	Marion	178	20	160,000	Crawford & McCrimmon
Virginia Coal Co., No. 1.	Lake Creek.	162	12	35,000	Crawford & McCrimmon
Go & Big Muddy Coal & Co. No. 1	Marion	157	20	100,000	Aetna.....
Monson Co. Coal Co	Lake Creek	154	10	35,000	Not given....
Colliery Co.....	Duquoin ..	150	15	80,000	Not given
Port Coal Co.....	Ledford,	132	14	100,000	Not given....
Manufacturers Fuel Co., Jupiter	Pinckneyville	129	10	40,000	Not given.....
Go Herrin Coal Co., No. 1.	Herrin	120	12	35,000	Crawford & McCrimmon
On City & Big Muddy & Min. Co.....	Lake Creek..	117	20	100,000	Duncan
On Anthracite Coal & Co	Sparta	111	18	100,000	Not given....
Coal & Mining Co., No. 6	Percy	110	10	35,000	Ottumwa
Superior Coal & Min. Co.	Duquoin.. ..	108	12	60,000	Blakeslee
Manufacturers Fuel Co., Jupiter	Duquoin.. ..	107	12	50,000	Not given.....
Ohio Washed Coal Co....	Carterville ..	103	12	35,000	Not given....
Y-Koenecke Coal Co.,	Carterville ..	97	16	55,000	Blakeslee ...
Coal & Coke Co ...	Sparta.....	92	12	50,000	Blakeslee
Coal & Coke Co.....	Equality	87	10	30,000	Crawford & McCrimmon
Coal Co. No. 4.....	Murphsboro	86	14	12,000	Home made.
Coal Co.....	Tilden	83	12	60,000	Home made....
Manufacturers' Fuel Co., Jupiter	St. John.....	77	18	100,000	Litchfield
ville District Coal Co	Marion	76	6	16,000	Sullivan ...
Dick Coal Co.....	Carterville ..	76	12	35,000	Not given
Muddy Coal Co	Tamaroa	75	12	30,000	Not given
Coal & Coke Co. No. 1	Sparta	75	12	60,000	Blakeslee
Co.....	Cutler.....	72	10	30,000	Blakeslee

Table 88—Concluded.

SEVENTH DISTRICT—Concluded.

Number.	NAME OF OPERATOR.	Postoffice address and location of mine.	Number of employees under ground.	FAN.		
				Diameter—feet.	Capacity—cubic feet per minute	Name.
37	Tilden Coal Co.	Tilden	71	10	35,000	Blakeslee
38	Clifton Coal Co.	Ledford	65	10	40,000	Crawford & McCrimmon
39	Gas Coal Co.	Harrisburg	64	14	50,000	Hellman
40	Greenwood Davis Coal Co.	Duquoin	62	8	20,000	Blakeslee
41	Willis Coal & Mining Co. No. 5. Percy	Percy	62	10	30,000	Not given
42	Mo. & Ill. Fuel Co., No. 4	Willisville	56	11	20,000	Not given
43	Western Coal & Mining Co.,	Bush	54	22	100,000	Duncan
44	Illinois Fuel Co., No. 3	Sparta	44	12	60,000	Ellison
45	Easton Fuel Co.	Sanfield	43	14	12,000	Not given
46	Coulterville Mining Co., No. 1	Coulterville	42	10	30,000	Crawford & McCrimmon
47	Gartside Coal Co., No. 3	Murphysboro	42	14	12,000	Home-made
48	Willis Coal & Mining Co., No. 2	Bryden	41	10	30,000	Blakeslee
49	Chicago & Coulterville Coal Co.	Coulterville	41	11	20,000	Crawford & McCrimmon
50	Perry County Coal Co.	Duquoin	37	10	35,000	Blakeslee
51	Carterville Mining Co.	Herrin	35	20	90,000	Blakeslee
52	Jefferson Coal Co.,	Mt. Vernon	33	14	12,000	Not given
53	A. E. Powell	Coulterville	33	12	60,000	Not given
54	Illinois Fuel Co., No. 4	Sparta	32	18	110,000	Crawford & McCrimmon
55	Hugh Murray	Nashville	29	9	30,000	Crawford & McCrimmon
56	Davis C. & Iron Co., Queen City	Duquoin	25	18	100,000	Not given
57	Gus Blair Big Muddy Coal Co.	Murphysboro	17	6	5,000	Not given
58	Morris Coal Co.	Carriers Mills	14	14	50,000	Not given
59	Schmidgall Coal Co.	Murphysboro	10	8	130,000	Cole
60	Manufacturers' Fuel Co.	St. John	10	18	100,000	Litchfield
61	Eldorado Coal Co.	Eldorado	10	10	40,000	Crawford & McCrimmon
62	Casaway Bros.	Eldorado	5	9	10,000	Not given
63	Zeigler Coal Co.	Zeigler	5	8	20,000	Not given

This presents the record of ventilating fans in detail, as reported, in all the districts. Some difficulty was encountered in collecting statistics on this subject, owing to the neglect of the operators in reporting the name of the fan in use. However, sufficient data has been obtained to give a fair representation of the subject matter of ventilation in the mines of the State.

The foregoing exhibition is condensed in a table following which shows the number and names of fans made and placed by regular manufacturers; the number styled home-made and the number where the name is not given.

TABLE 89—*Fans in Use in the State by Districts.*

DISTRICT.	REGULAR MAKE.		HOME MADE.		NAME OF FAN NOT REPORTED.		TOTALS.	
	Number mines and fans.	Number of men under ground.	Number mines and fans.	Number of men under ground.	Number mines and fans.	Number of men under ground.	Number mines and fans.	Number of men under ground.
First	32	6,462	2	426	5	136	39	7,024
Second	19	5,671	11	444	1	11	31	6,126
Third.....	46	3,003	12	405	4	91	62	3,499
Fourth	35	5,381	3	118	4	384	42	5,833
Fifth.....	48	6,905	7	1,428	.....	.....	55	8,333
Sixth.....	53	5,899	2	440	32	2,160	87	8,499
Seventh.....	40	4,621	3	211	20	1,516	63	6,348
The State....	273	37,942	40	3,472	66	4,298	379	45,712

The total number of mines at which fans are employed for ventilation, is 379, at which 45,712 men are employed underground; while this represents only 41 per cent of the mines of the State, yet 85 per cent of the employes underground were working in these mines.

It will be seen that, at 273 or 72 per cent of the mines the operators have erected or established a fan made by some recognized manufacturing establishment, while 11 per cent are home-made and 17 per cent failed to give the name of the fan in use.

The average number of employés in the mines, using one of the established make of fans, was 139; at the mines where home-made fans were used, the average was 87; and, at the mines not reporting the name, 65.

The following list gives the number and name of fans in use in the State, by districts:

TABLE 90—*Names and Number of Fans in Use in the Mines of the State, by Districts.*

Number.	NAME OF FAN.	DISTRICTS.							Total
		First.	Second.	Third.	Fourth.	Fifth.	Sixth.	Seventh.	
1	Crawford & Crimmon., ...	13	2	32	19	24	16	16	122
2	Duncan .....	.....	2	1	2	10	7	3	25
3	Cole.....	1	2	6	1	.....	3	1	14
4	Blakeslee.....	.....	.....	.....	.....	.....	1	12	13

Table 90—Concluded.

Number.	NAME OF FAN.	DISTRICTS.							Total
		First.	Second.	Third.	Fourth.	Fifth.	Sixth.	Seventh.	
5	Litchfield				2	4	1	2	9
6	Pump & Skein.						8		8
7	Ellison.						7	1	8
8	Ætna					5	1	1	7
9	Ottumwa.		2	4				1	7
10	Capell.	1	4			1			6
11	Gutbal	5			1				6
12	Cyclone.	6							6
13	Murphy		2	1	2	1		1	6
14	Robinson.				2	1			4
15	Herzler & Henninger.						4		4
16	Champion.				2	1			3
17	Stokett						3		3
18	Danville				1	1			2
19	Kangley.	2							2
20	Barnard & Lean.		2						2
21	Buffalo.			1			1		2
22	Wood.	1							1
23	Bagley.	1							1
24	Erie.	1							1
25	Parker.	1							1
26	Frost.		1						1
27	Armentrout.		1						1
28	Brunner.		1						1
29	Eagle			1					1
30	Holmes				1				1
31	Dixon.				1				1
32	Devlin.				1				1
33	Ballock.						1		1
34	Sullivan							1	1
35	Heilman.							1	1
	Home made.	2	11	12	3	1	2	3	34
	Name not reported	5	1	4	4		32	20	66
	Totals	39	31	62	42	55	87	63	389

Table 91—Continued.

CALHOUN COUNTY.

Number.	NAME OF OPERATOR.	Postoffice address of mine	PHYSICAL CHARACTER OF MINES.							Total tons.
			Geological number of seam.	Depth of coal—feet and inches.	Thickness of seam—feet and inches.	Shaft slope, drift.	Hoisting—steam, horse, hand	Long wall, pillar and room.	Haulage—hand, mule, cable, electric.		Mine—band, machine, both.
1	Thomas Press Brick Co....	Golden Eagle.	1 Str	2.4	Dr.	..	P-R..	M....	Hd...	3,110

CASS COUNTY.

1	William Shore	Chandlerville.	2	40	3.	Sh.	Ho	P-R	Hd..	Hd...	1,300
2	Charles Nelson	Chandlerville.	2	40	3.	do	do	do	do	do..	1,300
2 mines.. ..											2,300

CHRISTIAN COUNTY.

1	Springfield C M Co., No. 6	Taylorville	5	462	7 6	Sh	St.	P. R.	E-M.	Hd..	306,662
2	Christian Co. C ¹ Co., No 1	Taylorville	5	470	7 6	do	do	do	M...	H-M	188,113
3	Penwell Coal Mining Co	Pana ..	5	723	7 6	do	do	do	E-M.	Hd..	156,267
4	Newbent Coal Co., No. 2	Pana.	5	720	7 6	do	do	do	do	do..	113,977
5	Pana Coal Co., No. 1.....	Pana.	5	720	7 6	do	do	do	do	do..	110,513
6	Manufacturers Fuel Co ..	Pana	5	723	7 6	do	do	do	C-M.	do.	110,503
7	Assumption C & M. Co	Assumption	1	1003	9 6	do	do	L-W	M	do.	96,334
8	Edinburg Coal Co . . .	Edinburg..	5	365	7 0	do	do	P-R.	do	do.	1,886
8 mines.. ..											986,635

CLINTON COUNTY.

1	Breese Coal Co.	Breese ..	6	400	7.	Sh	St.	P. R.	M-E.	Hd..	271,887
2	Consolidated Coal Co. .	Breese	6	400	7	do	do	do	M	do.	174,897
3	Muren Coal Co. .	New Baden	6	324	8	do	do	do	do	M	170,469
4	Trenton Coal Co.	Trenton ..	7	235	4 10	do	do	do	do	do.	149,516
5	Consolidated Coal Co....	Trenton ..	7	339	4 10	do	do	do	do	do.	66,769
6	Germantown Coal Co . .	Germantown	6	342	4 10	do	do	do	do	H....	71,968
6 mines.. ..											923,515

EDGAR COUNTY.

1	John Witte Coal Co., No. 1	Paris	5	125	6.	Sh.	St.	P.-R.	M...	Hd..	6,021
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FRANKLIN COUNTY.

1	Zeigler Coal Co	Zeigler	7	505	12.2	Sh	St.	P.-R.	E....	M...	4,200
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Table 91—Continued.

KANKAKEE COUNTY.

OPERATOR.	Postoffice address of mine	PHYSICAL CHARACTER OF MINES.							Total tons.
		Geological number of seam.	Depth of coal—feet and inches.	Thickness of seam—feet and inches.	Shaft—slope, drift.	Hoisting—steam, horse, hand.	Long wall, pillar and room.	Haulage—hand, mule, cable, electric.	
1. Coal Co. B.	Clark City.	2	130	2 8	Sh.	St.	L. W.	M-C. Hd..	53,405

KNOX COUNTY

Co. No. 3	Etherley.	6	40	Dr.	M	R-R.	M	Hd..	23,080
al Co. No. 1*	Yates City	2	94	30	Sh	St.	do	do	20,000
sex	Galesburg	1	112	40	do	do	do	H d	5,800
os	Wataga	6	68	40	do	do	do	do	5,750
hell	Galesburg	1	93	40	do	do	do	do	5,012
d	Wataga	6	55	40	do	Ho	do	do	4,868
on	Altona.	6	25	40	Sl	do	do	do	2,920
er & Bro	Wataga	6	40	Dr.	Hd	do	do	do	1,934
lor	Victoria	6	20	40	Sl.	Ho	do	do	1,600
overo	Wataga	6	40	Dr.	Hd	do	do	do	1,600
rn	Oneida	6	50	42	Sh	Ho	do	do	1,600
urg	Yates City	6	45	42	do	St.	do	do	1,516
Robinson	Oneida	6	48	44	do	Ho	do	do	1,450
elson	Knoxville	3	45	28	do	do	do	do	1,200
edy	Victoria	6	25	40	do	do	do	do	1,074
& Son	Victoria	6	20	40	do	do	do	do	980
an	Knoxville	3	28	30	do	do	do	do	866
erkstrom	Knoxville	3	30	Dr.	Hd	do	do	do	840
l	Delong	3	30	do	do	do	do	do	720
son	Wataga	6	20	40	Sl.	Ho	do	do	552
an	Victoria	6	40	Dr.	Hd	do	do	do	520
erkstrom	Oneida	6	44	do	do	do	do	do	500
l	Victoria	6	40	do	do	do	do	do	480
l	Yates City	6	46	Sh.	St.	do	do	do	480
l	Knoxville	3	40	30	do	Ho	do	do	448
l	Victoria	6	20	40	Sl.	do	do	do	416
l	Abingdon	2	20	Dr	Hd	do	do	do	400
l	Victoria	6	24	40	Sh.	Ho	do	do	380
l	Knoxville	3	30	Dr.	Hd	do	do	do	328
l	Abington	2	20	do	do	do	do	do	320
l	Etherley.	6	40	do	do	do	do	do	320
l	Abington.	2	20	do	do	do	do	do	240
l	Victoria	6	40	do	do	do	do	do	234
l	Victoria	6	40	do	do	do	do	do	200
l	Abington	2	20	do	do	do	do	do	200
l	Wataga	6	31	40	Sh.	Ho	do	do	160
l	Knoxville	3	30	Dr	Hd	do	do	do	160
l	Abington	2	20	do	do	do	do	do	160
l	Farmington	6	40	do	do	do	do	do	140
l	Victoria	6	10	40	Sl.	Ho	do	do	120
l	Victoria	6	40	Dr	Hd	do	do	do	120
l	Victoria	6	40	do	do	do	do	do	120
l	Abington	2	20	do	do	do	do	do	80
l	Wataga	6	15	40	Sl.	Ho	do	do	48
l	Watago	6	20	40	do	do	do	do	40
l	Victoria	6	40	Dr.	Hd	do	do	do	40
l	l	l	l	l	l	l	l	l	89,992

*-Geological numbers 2 and 5, depth of coal 94 feet and 201 feet, thickness of feet 6 inches, worked long wall and pillar and room.

Table 91—Continued.

LASALLE COUNTY.

PHYSICAL CHARACTER OF MINES.											
Number.	NAME OF OPERATOR.	Postoffice address of mine	Geological number of seam.	Depth of coal—feet and inches.	Thickness of seam—feet and inches.	Shaft—slope, drift.	Holting—steam, horse, hand	Long wall, pillar and room.	Haulage—hand, mule, cable, electric.	Mine—hand, machine, both.	Total tons
1	LaSalle Co Carbon C. Co., 1	LaSalle	2	440 3 6	Sh	St.	L. W.	M	Hd		
2	Acme Coal Co., Acme	Streator	7	110 3 6	do	do	P. R.	M-C.	do		
3	LaSalle Co C. C. Co., Un'n	LaSalle	12	375 3 6	do	do	L. W.	M	do		
4	LaSalle Co C. C. Co., LaS	LaSalle	12	362 3 6	do	do	do	do	do		
5	Chi. Wil. & Ver. C. Co., 2.	Streator	11	116 6 0	do	do	do	M E	do		
6	LaSalle Co. Carb. Coal Co	LaSalle	7	390 3 6	do	do	do	M	do		
7	Star Coal Co	Kangley	7	86 5 0	do	do	P. R.	M-C.	do		
8	Oglesby Coal Co	Oglesby	2	464 3 6	do	do	L. W.	M	do		
9	M & H Zinc Co	LaSalle	5	310 4 6	do	do	P. R.	do	do		
10	Mrs. Emerson Hakes	Rutland.	2	500 2 0	do	do	L. W.	do	do		
11	Chi. Wil. & Ver. C. Co., No. 1	Streator	12	212 3 0	do	do	do	do	do		
12	James Cahill's Estate	Peru	12	350 3 0	do	do	do	do	do		
13	Illinois Zinc Co	Peru	10	130 3 0	Dr	do	do	M-C.	do		
14	Marseilles C. Min. Co., No. 1	Marseilles	16	120 2 10	Sh	do	do	M	do		
15	William Francis, 2	Streator	7	48 5 0	Dr	do	P. R.	do	do		
16	Wunts Brothers	Streator	7	61 4 0	do	Ho	do	H.	do		
17	North Wilm. Coal Co., No. 1	Seneca	2	112 3 0	Sh.	St	L. W.	M	do		
18	Howe Coal Co., No. 1.	Streator	7	87 5 0	do	do	P. R.	H.	do		
19	Sawerby & Co., No. 1	Streator	7	50 4 6	Dr	do	do	M.	do		
20	Star Coal Co., No. 4	Kangley	2	200 3 0	Sh	do	L. W.	do	do		
21	Haar Brothers	Streator	7	40 4 6	do	Ho	P. R.	H.	do		
22	Oscar Kimes	Streator	7	50 4 0	Sl	do	do	do	do		
23	Lewis Evans.	Kangley	7	25 4 0	Sh.	do	do	do	do		
24	Evans Brothers, No. 2.	Streator	7	60 5 0	do	do	do	do	do		
25	Thos. Smith & Sons, No. 1	Streator	7	51 5 0	do	do	do	do	do		
26	Nelson & Stokes, No. 1	Streator	7	73 4 6	Sl	do	do	do	do		
27	John McNeil	Kangley	7	73 6 6	Sh.	do	do	do	do		
28	W. Thomas & Co	Streator	7	48 5 0	Sl.	do	do	do	do		
29	Bargreen Bros.	Streator	4	60 2 0	do	do	do	do	do		
30	Felton & Voight	Streator	7	73 5 0	Sh	do	do	do	do		
31	Mathew White, No. 1.	Ottawa	2	30 2 8	do	do	do	do	do		
32	Brookens Bros.	Lowell	2	100 3 0	Dr	do	do	do	do		
33	Daniel Vazaine	Ottawa	2	60 2 4	do	Hd	do	do	do		
34	Jos. W. McCullough	Ottawa	2	60 2 4	do	do	do	do	do		
35	T. B. Farrell	Ottawa	2	45 2 4	do	do	do	do	do		
36	Ringer & Hockstetler.	Ottawa	2	50 2 4	do	do	do	do	do		
37	Myers & Hendee	Ottawa	2	50 2 4	do	do	do	do	do		
38	William Mertz	Ottawa	2	63 2 4	do	do	do	do	do		
39	James Edson	Ottawa	2	60 2 4	do	do	do	do	do		
40	L. W. Brewer	Ottawa	2	55 2 4	do	do	do	do	do		
41	William Saxby.	Ottawa	2	70 2 4	do	do	do	do	do		
41 mines											1,778,000

Table 91—Continued.

MACOUPIN COUNTY.

Number.	NAME OF OPERATOR	Postoffice address of mine	PHYSICAL CHARACTER OF MINES								T
			Geological number of seam.	Depth of coal feet and inches	Thickness of seam—feet and inches.	Shaft slope, drift.	Holting steam, horse, hand	Long wall, pillar and room.	Haulage hand, mule, cable, electric	Mine—hand, machine, both	
1	Chi - Virden C. Co. No. 1.	Virden ..	5	320	7 6	Sh	St	P. R.	E.	M.	
2	Consolidated C. Co. No. 6.	Staunton.....	5	322	8 0	do	do	do	C	do	
3	Madison Coal Co. No. 5	Mt. Olive.	5	435	8 0	do	do	do	M	do	
4	Consolidated C. Co. No. 8.	Mt. Olive.	5	410	8 0	do	do	do	E	do	
5	Girard Coal Co.	Girard	5	354	8 6	do	do	do	M	Hd..	
6	Consolidated C. Co. No. 10.	Mt. Olive.	5	431	8 0	do	do	do	E	M	
7	Consolidated C. Co. No. 7.	Staunton	5	360	6 8	do	do	do	M	do	
8	Greenridge Mining Co.	Greenridge.	5	350	6 4	do	do	do	do	Hd.	
9	Virden Coal Co.	Virden.....	5	320	7 6	do	do	do	do	do	
10	Carlinsville Coal Co.	Carlinsville.	5	290	6 0	do	do	do	do	do	
11	Consolidated Coal Co.	Gillespie	5	355	7 0	do	do	do	do	M	
12	Manufacturers Fuel Co.	Nilwood..	5	325	6 0	do	do	do	do	Hd..	
13	Royal Colliery Co.	Virden.....	5	348	7 6	do	do	do	do	do	
14	Consolidated Coal Co.	Hornsby.	5	388	8 0	do	do	do	do	M	
15	Superior Coal Co. No. 1	Gillespie	5	348	8 0	do	do	do	do	do	
16	Consolidated C. Co. No. 14.	Staunton	5	284	6 8	do	do	do	do	do	
17	Wm. Neil & Co.	Bunker Hill	5	250	5 6	do	do	do	do	do	
18	Davis Bros.	Chesterfield	Pkt	60	Pkt	do	Ho	do	Hd..	Hd..	
19	Fred Lueklings	Brighton	5	60	5 6	do	do	do	do	do	
20	G. D. Loper	Chesterfield	Pkt	52	Pkt	do	do	do	do	do	
21	W. H. A. Bodl	Chesterfield	Pkt	30	Pkt	do	do	do	do	do	
22	E. Launsford & Co.	Bunker Hill	5	240	4 6	do	do	do	do	do	
23	John Harbaugh	Chesterfield	Pkt	50	Pkt	do	do	do	do	do	
24	Superior Coal Co. No. 2	Gillespie	5	324	8 0	do	St	do	M	M	
25	Wm. Hickey	Chesterfield	Pkt	30	Pkt	do	Ho	do	Hd..	Hd..	
26	Bouser & Truesdale	Bunker Hill	5	245	5 6	do	do	do	do	do	
	35 mines..										27

MADISON COUNTY.

1	Donk Bros. C. & C. Co., No. 1	Collinsville...	6	135	7 0	Sh.	St	P. R.	M. E	Hd.	
2	Donk Bros. C. & C. Co., No. 2	Collinsville.	6	245	7 0	do	do	do	M	M	
3	Staunton C. & M. Co., No. 1	Staunton.	6	292	6 0	do	do	do	M E	do	
4	Donk Bros. C. & C. Co., No. 3	Troy..	6	280	5 0	do	do	do	do	Hd..	
5	Madison Coal Co., No. 4.	Glen Carbon.	6	130	6 6	do	do	do	M	M	
6	Lumagh. Coal Co., No. 2.	Collinsville.	6	170	7 0	do	do	do	do	do	
7	Madison Coal Co., No. 2	Glen Carbon.	6	110	6 6	do	do	do	do	do	
8	Madison Coal Co., No. 3...	Edwardsville	6	217	7 0	do	do	do	do	do	
9	Kema Donnewald, No. 1	Worden.	6	270	7 0	do	do	do	do	do	
10	Consolidated Coal Co.	Collinsville.	6	168	7 0	do	do	do	do	do	
11	Con Coal Co. Abbey, No. 3	Collinsville.	6	146	7 0	do	do	do	do	do	
12	Henrietta Coal Co., No. 1	Edwardsville	6	180	7 0	do	do	do	do	Hd..	
13	Con Coal Co., Brookside.	Troy....	6	278	5 0	do	do	do	do	do	
14	Lumagh Coal Co., No. 3.	Collinsville	6	165	7 0	do	do	do	do	M	
15	DeCamp Coal M. Co., No. 1	Staunton	6	183	5 0	do	do	do	do	do	
16	Inter State C. M. Co., No. 1	Worden.	6	275	6 0	do	do	do	do	H. M	
17	Edwardsville H. T. C. Co.	Edwardsville	6	131	5 0	do	do	do	Hd..	Hd..	
18	Bullock Bros. Coal Co.	Collinsville.	6	170	7 0	do	do	do	M	do	
19	Abbey Coal Co., No. 4..	Collinsville.	6	200	7 0	do	do	do	do	do	
20	Perry Meyers.	Bethalto ..	2	65	4 0	do	Ho	do	Hd..	do..	
21	George Kabel	Moro..	2	85	4 0	do	do	do	do	do.	
22	James Hill	Fosterburg..	2	75	3 0	do	do	do	do	do..	
23	Frank Eccles	North Alton..	2	80	2 6	do	do	do	do	do.	

Table 91—Continued.

McDONOUGH COUNTY.

			PHYSICAL CHARACTER OF MINES.										Total tons.
Number.	NAME OF OPERATOR.	Postoffice address of mine	Geological number of seam.	Depth of coal—feet and inches.	Thickness of seam—feet and inches.	Shaft—slope, drift.	Hoisting—steam, horse, hand	Long wall, pillar and room.	Haulage—hand, mule, cable, electric.	Mine—hand, machine, both			
1	Rippetoe & Rundle	Colchester.	22	60	2 6	Sh	St.	P.R.	Dog	Hd	18,77		
2	T. E. Wilson	Blandinsville	22	40	2 4	Dr	Hd	do	Hd.	do	4,400		
3	Burney & Co	Blandinsville	22	53	2 6	do	Ho	do	Dog	do	1,300		
4	John Wilson	Colchester..	22	40	2 4	do	Hd	do	Hd.	do	1,300		
5	Ralph Oldham	Colchester..	22	40	2 4	do	do	do	do	do	1,300		
6	John Nee	Colchester..	22	40	2 4	do	do	do	do	do	1,300		
7	Barrett & Green	Colchester..	22	40	2 4	do	do	do	do	do	1,300		
8	Jackson M. Davis	Colchester..	22	40	2 4	do	do	do	do	do	1,300		
9	Atkinson Bros.	Colchester..	22	40	2 4	do	do	do	do	do	1,300		
10	Thomas Cooper	Colchester..	22	40	2 4	do	do	do	do	do	1,300		
11	Charles Atkinson	Colchester..	22	40	2 4	do	do	do	do	do	1,300		
12	Laron Bowman	Colchester..	22	40	2 4	do	do	do	do	do	1,300		
13	W. B. Davidson	Colchester..	22	40	2 4	do	do	do	do	do	1,300		
14	John Berry	Colchester..	22	40	2 4	do	do	do	do	do	1,300		
15	George W. Foster	Colchester..	22	40	2 4	do	do	do	do	do	1,300		
16	William Kipling	Colchester..	22	40	2 4	do	do	do	do	do	1,300		
17	David Morden	Colchester..	22	40	2 4	do	do	do	do	do	1,300		
18	Wm H. Robinson	Macomb..	22	40	2 4	do	do	do	do	do	1,300		
19	Richard Humes	Colchester..	22	40	2 4	do	do	do	do	do	1,300		
20	Wayland Bros.	Colchester..	22	40	2 4	do	do	do	do	do	1,300		
21	Lewis Lewis	Colchester..	22	40	2 4	do	do	do	do	do	1,300		
22	John Pearson	Colchester..	22	40	2 4	do	do	do	do	do	1,300		
23	John Mitchell	Vermont	22	40	2 4	do	do	do	do	do	1,300		
24	Eli Hillard	Colchester..	22	40	2 4	do	do	do	Dog	do	1,300		
25	C. E. Waddill	Tennessee	22	40	2 4	do	do	do	do	do	1,300		
26	George Polonus	Colchester..	22	40	2 4	do	do	do	do	do	1,300		
27	William Eddington	Macomb	22	40	2 4	do	do	do	do	do	1,300		
28	John Putt	Colchester..	22	40	2 4	do	do	do	do	do	1,300		
29	William Hudson	Colchester..	22	40	2 4	do	do	do	do	do	1,300		
30	Joseph Bunt	Colchester..	22	40	2 4	do	do	do	do	do	1,300		
31	Andrew Swanson	Colchester..	22	40	2 4	do	do	do	do	do	1,300		
32	Clay Nudd	LaHarpe	22	40	2 4	do	do	do	do	do	1,300		
33	Teel & Baker	Macomb	22	40	2 4	do	do	do	do	do	1,300		
34	Link Whitely	Industry	22	40	2 4	do	do	do	do	do	1,300		
35	John Betson	Colchester..	22	40	2 4	do	do	do	do	do	1,300		
36	Jackson Gilligan	Industry	22	40	2 4	do	do	do	do	do	1,300		
37	John Reeder	Colchester..	22	40	2 4	do	do	do	do	do	1,300		
38	Fred Newnecker	Bushnell	22	40	2 4	do	do	do	Hd.	do	1,300		
39	William Whalen	Colchester..	22	40	2 4	do	do	do	do	do	1,300		
40	Willis Stoneking	Fandon	22	40	2 4	do	do	do	do	do	1,300		
41	Aaron Crane	Colchester..	22	40	2 4	do	do	do	do	do	1,300		
42	Frank Burdick	Industry	22	40	2 4	do	do	do	Ho.	do	1,300		
43	M. McClure	Colchester..	22	40	2 4	do	do	do	do	do	1,300		
44	E. H. Carmack	Colchester..	22	40	2 4	do	do	do	do	do	1,300		
45	Richard Lalty	Colchester..	22	40	2 4	do	Ho	P.R.	Hd	H.	1,300		
46	Anton Lokasik	Colchester..	22	40	2 4	do	do	do	do	do	1,300		
47	J. W. Harp	Colchester..	22	40	2 4	do	do	do	do	do	1,300		
48	John C. Kirkbride	Vermont	22	40	2 4	do	Hd	do	do	do	1,300		
49	William Webster	Vermont	22	40	2 4	do	do	do	do	do	1,300		
50	Charles Porter	Vermont	22	40	2 4	Sh	do	do	do	do	1,300		
51	Frank Volger	Birmingham	22	40	2 4	Dr	do	do	do	do	1,300		
52	William Hoar	Colchester..	22	40	2 4	do	Dg	do	do	do	1,300		
53	Harvey Russell	Colchester..	22	40	2 4	do	do	do	do	do	1,300		
54	D. C. Perry	Colchester..	22	40	2 4	do	do	do	do	do	1,300		
55	Williams & Bro.	Colchester..	22	40	2 4	do	do	do	do	do	1,300		
56	Andrew Newnecker	Bushnell	22	40	2 4	do	do	do	do	do	1,300		
57	William Beason	Colchester..	22	40	2 4	do	do	do	do	do	1,300		
58	Smith Bros	Colchester..	22	40	2 4	do	do	do	do	do	1,300		

Table 91 - Continued.

MERCER COUNTY.

[illegible]

MONTGOMERY COUNTY.

[illegible]

MORGAN COUNTY.

[illegible]

Table 91—Continued.

PEORIA COUNTY.

NAME OF OPERATOR	Postoffice address of mine	PHYSICAL CHARACTER OF MINES.								Total tons.
		Geological number of seam.	Depth of coal—feet and inches.	Thickness of seam—feet and inches.	Shaft slope, drift.	Hoisting—steam, horse, hand.	Long wall, pillar and room.	Haulage—hand, mule, cable, electric.	Mine hand, machine, both.	
1 & Coke Co., A.	Peoria	5	105	4 2	Sh	St.	P. R.	M.-E	Hd	122,230
1, No. 3	Peoria	5	80	4 4	do	do	do	M.-C	do	103,049
2 Corp. Coal Co.	Peoria	5	150	4 4	do	do	do	do	do	82,376
Bros.	Peoria	5	90	4 4	do	do	do	do	do	71,196
Bros.	Peoria	5	90	4 4	do	do	do	do	do	60,683
& Taylor	Edwards	5	120	4 2	Dr	do	do	M.-E	do	60,125
Corp. Coal Co.	Bartonville	5	180	4 4	Sh	do	do	M	do	54,380
Bros.	Peoria	5	75	4 4	Dr	do	do	M.-C	do	38,040
Coal & Coke Co.	Kimwood	5	120	3 8	Sh	do	do	M	do	34,608
as.	Kramm	5	80	4 0	Dr	Ho	do	do	do	25,230
Bros.	Peoria	5	180	4 4	Sh	St.	do	do	do	25,059
Bros.	Peoria	5	250	4 2	do	do	do	do	do	24,880
mm.	Peoria	5	80	4 2	Dr	do	do	do	do	20,200
Coal Co.	Bartonville	5	90	4 4	Sl.	do	do	do	do	18,260
ey.	Mapleton	5	80	4 8	Dr	do	do	do	do	17,980
alker	Mapleton	5	70	4 6	do	do	do	do	do	15,857
n Coal Co.	Orchard M's	2	160	2 6	Sh	do	L. W.	do	do	13,820
nt & Son	Peoria	5	105	4 2	do	do	P. R.	do	do	13,630
Coal Co.	Bartonville	5	90	4 4	Sl.	do	do	do	do	12,640
Coal Co.	Peoria	5	100	4 6	Sh	do	do	M.-C	do	10,700
e Snedden	Peoria	5	90	4 6	Sl.	do	do	M	do	10,670
Co.	Bartonville	5	90	4 4	Sh	do	do	do	do	8,010
Coal Co.	Peoria	5	80	4 4	Sl.	Ho	do	do	do	7,240
e Coal Co.	Peoria	5	80	4 4	Sh	St.	do	do	do	6,820
son	Bartonville	5	90	4 4	do	do	do	do	do	6,780
gbee	Princeville	6	70	4 6	do	do	do	do	do	5,680
Edwards	Edwards	5	100	3 8	Dr	do	do	do	do	5,640
Bro	Kingston M's	5	120	4 6	Sl.	Ho	do	do	do	5,300
Coal Co.	Peoria	5	60	4 4	Sh	St.	do	do	do	5,200
& Co.	Peoria	5	50	4 2	do	do	do	do	do	4,260
rew	Chillicothe	7	90	4 6	Dr	Hd	do	do	do	3,730
ineburger	Chillicothe	7	90	4 6	do	do	do	do	do	3,640
ght	Chillicothe	7	90	4 6	do	do	do	do	do	3,610
al Co.	Peoria	5	85	4 4	do	Ho	do	do	do	3,460
Coal Co.	Peoria	5	85	4 4	Sh	do	do	do	do	3,240
& Burdett	Pottstown	5	80	4 0	Dr	do	do	do	do	2,980
ler	Mapleton	5	110	4 4	do	do	do	do	do	2,680
Corp. Coal Co.	Orchard M's	5	do	do	do	do	do	do	do	2,500
ter	Peoria	5	do	do	do	do	do	do	do	2,400
Block	Peoria	5	do	do	do	do	do	do	do	1,800
as.	Brimfield	6	40	5 0	Sh	do	do	Hd	do	1,600
Heaton	Brimfield	6	25	5 0	do	do	do	do	do	1,680
& Son	Princeville	6	25	5 0	do	do	do	do	do	1,520
...	Monica	4	43	5 0	do	do	do	do	do	1,280
...	Peoria	5	do	do	Sl.	do	do	do	do	1,260
...	Peoria	5	do	do	do	do	do	do	do	1,200
Welsh	Peoria	5	do	do	Sh	St.	do	M	do	946
...	Orchard M's	5	do	do	Dr	Ho	do	do	do	940
Co.	Monica	6	50	4 6	Sh	do	do	Hd	do	840
...	Orchard M's	5	do	do	Sl.	do	do	do	do	720
...	Reed City	5	do	do	do	do	do	do	do	640
Co.	Peoria	5	do	do	do	do	do	do	do	620
Bros.	Orchard M's	5	do	do	do	do	do	do	do	580
m	Hanna City	6	do	do	Dr	do	do	do	do	500
...	Monica	4	do	do	do	do	do	do	do	500
Clarkson	Edwards	5	85	4 0	do	do	do	do	do	460
umble	Kimwood	6	50	5 0	Sh	do	do	M	do	450

Table 91—Continued.

SALINE COUNTY.

Number.	NAME OF OPERATOR	Postoffice address of mine	PHYSICAL CHARACTER OF MINES.							
			Geological number of seam.	Depth of coal—feet and inches.	Thickness of seam—feet and inches.	Shaft—slope, drift.	Hoisting—steam, horse, hand.	Long wall, pillar and room.	Haulage—band mule, cable, electric.	Mine—hand, machine, both.
1	Davenport Coal Co.	Ledford	3	144	8 0	Sh	St.	P.-R	M	Hd.
2	Clifton Coal Co.	Ledford	5	143	7 0	do	do	do	do	do
3	Gas Coal Co.	Harrisburg	5	120	7 0	do	do	do	do	do
4	Morris Coal Co.	Carriers Mills								
5	Eldorado Coal & Coke Co.	Eldorado	6	40	3 6	do	do	do	Hd.	do
6	Casaway Bros.	Eldorado	6	40	3 6	do	do	do	do	do
7	Jobe Ingram	Harrisburg	5	220	8 0	do	do	do	M	do
8	D. P. Bybee	Harrisburg	5	143	7 0	do	do	do	do	do
9	Egyptian Coal & Coke Co.	Harrisburg	5	150	7 0	do	do	do	do	do
10	Charles Hart	Cottage Grove	6	25	4 3	Dr	do	do	Hd.	do
11	Diamond Coal Co.	Harrisburg	5	120	7 0	Sh	do	do	M	do
12	J. R. Lord	Eldorado	6	40	3 6	do	do	do	Hd.	do
13	S. J. Moore	Cottage Grove	6	16	4 0	Dr.	do	do	do	do
14	James Yates	Cottage Grove	6	25	4 3	do	do	do	do	do
15	R. M. Barry	Cottage Grove	6	18	4 0	do	do	do	do	do
16	Sherman Dixon	Harrisburg								
17	Willis Henson	Harrisburg								
17 mines.										

SANGAMON COUNTY.

Number.	NAME OF OPERATOR	Postoffice address of mine	Geological number of seam.	Depth of coal—feet and inches.	Thickness of seam—feet and inches.	Shaft—slope, drift.	Hoisting—steam, horse, hand.	Long wall, pillar and room.	Haulage—band mule, cable, electric.	Mine—hand, machine, both.
1	Chi., Wil. & Ver. Coal Co.	Thayer	5	292	7 11	Sh	St.	P.-R.	E	M
2	Madison Coal Co., No. 4	Divernon	5	318	8 0	do	do	do	do	do
3	Jones & Adams Co.	Springfield	5	250	5 9	do	do	do	do	Hd.
4	Victor Coal Co.	Pawnee	5	324	7 6	do	do	do	M	do
5	Chi.-Virden Coal Co., No. 2	Auburn	5	290	7 6	do	do	do	do	do
6	Springfield C M Co., No. 2	Riverton	5	232	5 9	do	do	do	do	do
7	Capitol Cooperative C Co.	Springfield	5	240	5 9	do	do	do	C	do
8	Springfield C M Co., No. 5	Springfield	5	250	5 9	do	do	do	M	do
9	Springfield C M Co., No. 4	Springfield	5	245	5 9	do	do	do	do	do
10	Woodside Coal Co.	Springfield	5	250	5 9	do	do	do	do	do
11	Springfield Coop. Coal Co.	Springfield	5	250	5 9	do	do	do	do	do
12	West End Coal Co.	Springfield	5	150	5 9	do	do	do	do	do
13	Springfield C M Co., No. 1	Riverton	5	230	5 9	do	do	do	C	do
14	Springfield C M Co., No. 3	Springfield	5	250	5 9	do	do	do	M	do
15	Jefferson Coal Co.	Springfield	5	250	5 9	do	do	do	do	do
16	Sangamon Coal Co.	Springfield	5	285	5 9	do	do	do	do	do
17	Auburn & Alton Coal Co.	Auburn	5	268	7 6	do	do	do	do	do
18	Cantrall Cooperative C. Co.	Cantrall	5	213	6 0	do	do	do	do	do
19	Wil. & Springfield Coal Co.	Springfield	5	245	5 9	do	do	do	C	do
20	Wabash Coal Co.	Dawson	5	259	5 0	do	do	do	M	do
21	Spaulding Coal Co., No. 1	Spaulding	5	238	5 9	do	do	do	do	do
22	Chi.-Virden Coal Co., No. 3	Chatham	5	250	7 0	do	do	do	do	do
23	Citizens Coal Mining Co., B	Springfield	5	205	5 4	do	do	do	do	do
24	Williamsville Coal Co.	Selbytown	5	269	5 6	do	do	do	do	do
25	Spaulding Coal Co., No. 2	Bissell	5	220	5 9	do	do	do	do	do
26	Barclay Coal Mining Co.	Barclay	5	248	5 9	do	do	do	E	do
27	Citizens Coal Mining Co., A	Springfield	5	210	5 9	do	do	do	M	do
28	Trutter Coal Co.	Pleasant Pl's	5	139	5 6	do	do	do	do	do
29	Lincoln Park Coal Co.	Springfield	5	250	5 9	do	do	do	do	do
30	Tuxhorn Coal Co.	Keys	5	220	5 9	do	do	do	do	do
31	Chi.-Springfield Coal Co.	Springfield	5	225	6 0	do	do	do	do	do
32	Peabody Mining Co.	Sherman	5	201	6 0	do	do	do	do	do
33	J. P. Gordon	Salisbury	5	250	5 9	do	do	do	Hd.	do
34	Island Grove Coal Co.	Berlin	5	185	5 6	do	do	do	do	do
34 mines.										4, 5

Table 91—Continued.

STARK COUNTY.

Number.	NAME OF OPERATOR	Postoffice address of mine	PHYSICAL CHARACTER OF MINES.								
			Geological number of seam.	Depth of coal feet and inches.	Thickness of seam—feet and inches.	Shaft—slope, drift.	Hoisting—steam, horse, hand.	Long wall, pillar and room.	Haulage hand, mule, cable, electric.	Mine—hand, machine, both.	
1	Wyoming Coal Co., No. 1	Wyoming	8	124	4 4	Sh	St.	P.-R.	Hd	Hd	
2	Watson & Higbie	Wyoming	8	106	4 0	do	do				
3	S. French	Bradford	8	104	4 8	do	Ho				
4	W. B. Hallentine	Toulon	8		4 0	Dr.	M.	do	M.	do	
5	J. M. Robinson	Elmira	8	40	4 8	Sh	Ho	do	Hd	do	
6	John Scott	Wyoming	8	58	4 4	do	do	do	do	do	
7	Jesse Savill	Wyoming	8		4 0	Dr.	Hd	do	do	do	
8	Ben Smith	Wyoming	4	45	4 4	Sh	Ho	do	do	do	
9	John Catton	West Jersey	4		4 0	Dr.	Hd	do	do	do	
10	B. F. Newton	Bradford	8	117	4 8	Sh	Ho	do	do	do	
11	James Higbee	Wyoming	8	75	4 0	do	do	do	do	do	
12	Isaiah King	Wyoming	8	124	4 4	do	do	do	do	do	
13	James K. Fuller	Wyoming	8		4 0	Dr.	Hd	do	do	do	
14	Cahill & Code	Lombardville	8	138	4 8	Sh	Ho	do	do	do	
15	John Thurston	Wyoming	8	30	4 0	do	do	do	do	do	
16	Bever Bros	Wyoming	8	76	4 0	do	do	do	do	do	
16 mines											

ST. CLAIR COUNTY.

1	St. L. & O'Fallon C. Co., No. 1	Belleville	8	100	8 0	Sh	St.	P.-R.	M	Hd.
2	Royal Coal Co., Royal	Belleville	8	190	7 0	do	do	do	do	do
3	Muren Coal & Ice Co., No. 1	Belleville	8	180	7 0	do	do	do	do	do
4	Walnut Hill Coal Co.	Belleville	8	200	7 0	do	do	do	do	do
5	Kolb Coal Co., No. 1	Mascoutah	8	180	7 0	do	do	do	do	do
6	Superior Coal M'g Co., No. 1	Belleville	8	180	7 0	do	do	do	do	do
7	Madison Coal Co., No. 7	Belleville	8	185	7 0	do	do	do	do	do
8	Jos. Taylor Coal Co., Taylor	O'Fallon	8	200	7 0	do	do	do	do	do
9	Glendale Coal & M. Co., No. 1	Belleville	8	120	7 0	do	do	do	do	do
10	Mo. & Ill. C. Co., Rentchler	Belleville	8	130	7 0	do	do	do	do	do
11	Dutch Hol'w C. Co., Oak'nd	Belleville	8	175	7 0	do	do	do	do	do
12	Borders Coal Co., No. 1	Marissa	8	114	7 0	do	do	do	do	do
13	Kolb Coal Co., Vinegar Hill	Mascoutah	8	80	7 0	do	do	do	do	do
14	Valley Coal & Mining Co	East St. Louis	8	113	7 0	do	do	do	do	do
15	Daniel Zildorph, Marissa	Marissa	8	120	7 0	do	do	do	do	do
16	Joseph Taylor, Mentor	O'Fallon	8	210	7 0	do	do	do	do	do
17	Oak Hill Coal Co.	Belleville	8	187	7 0	do	do	do	do	do
18	Eureka Coal Co., Eureka	Marissa	8	114	7 0	do	do	do	do	do
19	Dutch Hol'w C. Co., Randle	Freeburg	8	150	7 0	do	do	do	do	do
20	Summit Coal Co.	Belleville	8	190	7 0	do	do	do	do	do
21	Tirre Coal & Mining Co.	Lenzburg	8	191	8 0	do	do	do	do	do
22	Belleville & O'Fallon C. Co.	Belleville	8	120	8 8	do	do	do	do	do
23	Lebanon Coal & Min. Assn	Lebanon	7	200	5 6	do	do	do	do	do
24	O'Fallon C. M. Co., Darrow	O'Fallon	7	186	5 6	do	do	do	do	do
25	Consol. Coal Co., Shawnee	Belleville	8	125	6 0	do	do	do	do	do
26	Johnson Coal Co., O. K.	Marissa	8	120	7 0	do	do	do	do	do
27	George Hippard, No. 1	Belleville	8	75	7 0	do	do	do	do	do
28	Joseph Guest & Sons	Belleville	8	70	7 0	do	do	do	do	do
29	Wm Ratigan, Ruby	Caseyville	8	200	6 0	do	do	do	do	do
30	Mo. & Ill. C. Co., Wilderman	Belleville	8	90	6 0	do	do	do	do	do
31	Consol. Coal Co., Green Mt	Belleville	8	180	6 0	do	do	do	do	do
32	Consol. C. Co., White Oak	Marissa	8	175	6 0	do	do	do	do	do
33	Consolidated C. Co., No. 4	Belleville	8	205	6 0	do	do	do	do	do

Table 91—Continued.

ST. CLAIR COUNTY—Concluded.

[illegible]**TAZEWELL COUNTY.**[illegible]

Table 91—Continued.

VERMILION COUNTY.

Number	NAME OF OPERATOR	Postoffice address of mine	PHYSICAL CHARACTER OF MINES.									
			Geological number of seam.	Depth of coal—feet and inches.	Thickness of seam—feet and inches.	Shaft—slope, drift.	Hoisting—steam, horse, hand.	Long wall, pillar and room.	Haulage—hand, mule, cable, electric.	Mine hand, machine, both.		
1	Kellyville Coal Co., No. 3	Westville . .	6	212	7 0	Sh	St.	P. R.	C. M.	Hd.		
2	Westville Coal Co., No. 1.	Westville . .	6	210	7 0	do	do	do	E. M.	do		
3	Kellyville Coal Co.	Himrod . .	6	168	8 0	do	do	do	M.	H. M.		
4	Kellyville Coal Co., No. 4	Westville . .	6	90	7 0	do	do	do	do	Hd.		
5	Kellyville Coal Co., No. 2	Kellyville . .	7	210	7 0	do	do	do	E. M.	do		
6	Kellyville Coal Co.	Westville . .	6	90	8 0	do	do	do	C. M.	do		
7	Kellyville Coal Co., No. 5	Westville . .	6	80	7 0	do	do	do	M.	do		
8	Jones & Adams Co. No. 2	Catlin	6	168	6 0	do	do	do	E. M.	do		
9	Economy Coal Min. Co.	Danville . .	7	85	6 0	do	do	do	C. M.	do		
10	Consolidated Coal Co. . . .	Fairmont . .	7	208	5 0	do	do	do	M.	do		
11	John O'Connell C. Co.	Danville.. .	6	40	7 0	do	do	do	do	do		
12	Electric Coal Co.	Danville.. .	7	100	6 0	do	do	do	do	do		
13	E. S. Gray, No. 3	Danville . .	7	100	6 0	do	do	do	do	do		
14	Consolidated Coal Co.	Missionfields.	7		6 0	Str	do	Stp.	do	M.		
15	Mauck Bros.	Danville.. .	7	60	6 0	Dr	do	P. R.	do	Hd.		
16	Western Brick Co.	Danville . .	7	50	6 0	Str	do	do	do	do		
17	Westville Coal Co., No. 2.	Westville . .	6	215	7 0	Sh	do	do	do	do		
18	C. J. White, No. 2	Grape Creek .	6	125	7 0	Sl	do	do	do	do		
19	Stansbury & Watkins	Danville.. .	7	80	6 0	Sh	Ho	do	Hd.	do		
20	S. Parle, No. 2	Danville.. .	7	90	6 0	do	St.	do	do	do		
21	Bunting Bros.	Grape Creek .	7	80	6 0	Dr.	Ho	do	M.	do		
22	Oakwood Coal Co.	Oakwood . .	7	80	6 0	Sh	St.	do	do	do		
23	D. A. Jenkins.	S. Danville .	7	80	6 0	Dr.	Ho	do	do	do		
24	E. S. Gray, No. 4.	Oakwood.. .	7	95	6 0	Sh	St.	do	do	do		
25	Star Coal Co., No. 1	Vandercook .	7	60	6 0	Dr.	do	do	do	do		
26	F. W. Davis	Muncie	6	200	5 0	Sh	do	do	do	do		
27	Carter Bros.	Danville.. .	7	50	6 0	Dr.	Ho	do	Hd.	do		
28	Danville Brick & Tile Co.	Danville.. .	7	60	6 0	do	do	do	do	do		
29	France Bros.	Fairmount . .	7	50	5 0	Sh	do	do	do	do		
30	W. C. Shafer	Danville.. .	7	60	6 0	do	St.	do	do	do		
31	Joe Mauck	Danville.. .	7	80	6 0	do	do	do	do	do		
32	Miller & Spangler	Danville.. .	7	100	6 0	do	do	do	do	do		
33	A. Jones & Sons, No. 1.	Catlin	7	50	5 6	do	Ho	do	do	do		
34	James Thomas, No. 1	S. Danville .	7	23	6 0	do	do	do	do	do		
35	M. C. Wilkinson, No. 1 . . .	S. Danville .	7	60	6 0	Dr.	do	do	do	do		
36	Morin & Mobaker, No. 1 . .	Danville.. .	7	80	6 0	do	do	do	do	do		
37	John R. Colburn	Vandercook .	7	60	6 0	Sh	do	do	do	do		
38	Hardy Harris C. Co., No. 3.	Fairmont . .	7	50	5 0	do	do	do	do	do		
39	John Brvant	Grape Creek .	6	60	7 0	Sl.	do	do	do	do		
40	S. M. Hodge & Son	Danville.. .	7	40	5 6	do	do	do	do	do		
41	A. H. Bonnett	Collison . . .	7	100	5 6	Sh	St.	do	M.	do		
42	L. S. Miller.	Grape Creek .	6	10	6 0	Str	do	do	do	do		
43	Joe Baler	Danville.. .	7	60	5 6	Sh	Ho	do	Hd.	do		
44	George W. Fenwick, No. 1	Danville . .	6	80	6 0	do	St.	P. R.	do	do		
45	J. A. Humme	Danville RR 1	7	60	6 0	Dr	Ho	do	do	do		
46	William Shue	Danville . .	7	60	6 0	do	do	do	do	do		
47	W. A. Shepherd	Catlin	7	80	5 6	do	do	do	do	do		
48	John Aldridge	Danville . .	7	40	5 6	do	do	do	do	do		
49	Cantrall & Beeler, No. 1	Danville RR 1	7	60	6 0	Sl.	St.	do	do	do		
50	Blue & Hall	Grape Creek .	6	80	7 0	Sh	Ho	do	do	do		
51	Hurd & Webster, No. 1 . . .	Danville . .	7	60	6 0	do	do	do	do	do		
52	Fred Brennerman, No. 1 . .	Danville.. .	7	60	6 0	Dr.	do	do	do	do		
53	Henry J. Dettman	Danville.. .	7	10	6 0	Str	do	Stp	do	do		
54	M. A. Fredrickson	Danville . .	7	10	6 0	do	do	do	do	do		
55	Samuel Thomas & Bro	Catlin	7	60	6 0	Sl	do	P. R.	H.	do		
56	Jacob Thompson, No. 2 . . .	Grape Creek .	6	80	7 0	do	do	do	do	do		
57	Young & Ellis, No. 1	Danville RR 1	7	80	6 0	do	do	do	do	do		

Table 91—Concluded.

WILLIAMSON COUNTY.

Number.	NAME OF OPERATOR	Postoffice address of mine	PHYSICAL CHARACTER OF MINES.								Total.
			Geological number of seam.	Depth of coal—feet and inches.	Thickness of seam—feet and inches.	Shaft slope, drift.	Holisting—steam, horse, hand.	Long wall, pillar and room.	Haulage—hand, mule, cable, electric.	Mine band, machine, both.	
1	Big Muddy C. & I. Co., No. 7	Herrin	7	140	9 0	Sh	St.	P-R.	E	Hd	41
2	Sunnyside Coal Co., No. 1	Herrin	7	145	9 0	do	do	do	M	do	34
3	Chi. & Cartersville C. Co., 1	Herrin	7	180	9 0	do	do	do	do	H. M	34
4	St. L. & B. M. C. C., Dawes	Dewmaine	7	90	9 0	do	do	do	E	Hd	29
5	So. Ill. C. M. & W. Co., No. 3	Marion	7	112	9 0	do	do	do	M	H. M.	19
6	New Virginia Coal Co., No. 1	Lake Creek	7	119	8 0	do	do	do	do	Hd	18
7	So. Ill. C. M. & W. Co., No. 2	Marion	7	80	9 0	do	do	do	do	H. M	15
8	Chicago-Herrin Coal Co.	Herrin	7	181	9 0	do	do	do	do	Hd	14
9	Chi. & B. M. C. & C. Co., 1	Marion	7	81	9 0	do	do	do	do	do	12
10	Williamson Co. Coal Co.	Lake Creek	7	150	9 0	do	do	do	do	do	12
11	Johnson City & B. M. C. C.	Lake Creek	7	208	9 0	do	do	do	do	H. M	12
12	Cartersville Coal Co., Burr	Cartersville	7	80	9 0	do	do	do	do	Hd	12
13	New Ohio Washed C. C., 1	Cartersville	7	65	9 0	do	do	do	do	do	11
14	Cartersville District Coal Co.	Marion	7	94	8 0	do	do	do	do	M	10
15	Cartersville Coal Co., No. 2	Cartersville	7	90	9 0	do	do	do	do	Hd	8
16	Donaly Knoenecke Coal Co.	Cartersville	7	110	9 0	do	do	do	do	do	7
17	Robert Dick Coal Co.	Cartersville	7	81	9 0	do	do	do	do	do	6
18	Cartersville & B. M. C. C.	Lauder	7	80	9 0	do	do	do	do	do	4
19	West Coal & M. Co., No. 1	Bush									1
20	Chicago & Marion Coal Co.	Marion	7	94	8 0	do	do	do	do	do	1
21	Cartersville Mining Co.	Herrin	7	161	9 0	do	do	do		do	1
22	Cartersville & Herrin C. C.	Herrin	7	165	9 0	do	do	do		do	
23	M. Hampton	Cartersville	7	30	9 0	do	do	do		do	
24	Adam Young	Cartersville	6	40	7 0	do	do	do	do	do	
25	St. Louis-Cartersville C. C.	Herrin	7		9 0	do	do	do	do	do	
26	Cartersville Diamond Co.	Cartersville	7	80	7 0	do	do	do	do	do	
27	Spitler & Whitecotton	Crab Orchard	6	30	5 6	Dr	Ho	do	do	do	
28	E. E. Ensminger	Crab Orchard	6	25	5 6	do	do	do	do	do	
29	Motsinger Bros.	Crab Orchard	6	22	5 6	do	do	do	do	do	
30	Geo. Wilson	Marion	7	10	9 0	Sl.	do	do	do	do	
31	Albert Absher	Absher									
32	W. J. Powell	Cartersville	7	30	9 0	Sh	St.	do	do	do	
33	Reese & Crain	Cartersville	6	40	7 0	do	do	do	do	do	
34	Frank Harris	Crab Orchard	6	20	5 6	Dr	Ho	do	do	do	
35	Thomas Parrett	Cartersville									
36	W. S. Tarpley	Crab Orchard	6	22	5 6	Dr	Ho	do	do	do	
37	Watson Coal Co.	Cartersville									
	37 mines										3.0

WOODFORD COUNTY.

1	Roanoke Coal Mining Co., 1	Roanoke	2	480	2.6	Sh	St.	L.W.	M	Hd.	1
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TABLE 92—*Summary of the Physical Character of the Coal Mines of the State, Geological Number of Seam, Manner of Working, Kind of Openings and Tons Produced.*

Geological number of seam.	Number of counties.	Number of mines.	MANNER OF WORKING.			CHARACTER OF OPENING.				Tons.
			Long wall.	Pillar and room.	Strip.	Shaft.	Slope.	Drift.	Strip.	
1	13	68	1	66	1	40	8	19	1	882,541
2	20	196	45	150	1	76	27	92	1	5,764,458
3	2	11	.....	11	.....	6	1	4	.....	13,304
4	1	1	.....	1	.....	.....	.....	1	.....	1,772
5	22	238	5	233	.....	175	23	40	.....	12,401,856
6	19	267	.....	267	.....	209	24	32	2	12,682,392
7	12	123	1	119	3	80	10	30	3	5,183,081
14	1	9	.....	9	.....	8	.....	1	.....	13,221
ocket....	3	10	.....	9	1	2	6	1	1	12,758
ot given	3	9	.....	.....	.....	.....	.....	.....	.....	122,514
Totals..	.....	932	52	865	6	596	99	220	8	37,077,897

NOTE—Nine mines whose tonnage is given do not give geological number of seam, manner of working nor character of opening.

HISTORICAL.

THE STATE BOARD OF EXAMINERS,
THE STATE MINING BOARD,
THE STATE INSPECTORS OF MINES,
1883-1904.

The mining laws of 1879 were amended by the Thirty-third General Assembly, 1883, among which were provisions for dividing the State into five inspection districts, naming the counties composing each district; creating a Board of Examiners, composed of two practical coal miners, two coal operators and one mining engineer, to be appointed by the Bureau of Labor Statistics of this State; the compensation of the members to be \$3.00 per day each, but not to exceed \$30.00 per annum and traveling expenses. The duty of the Board of Examiners was to recommend to the Governor for appointment five qualified persons to fill the offices of inspectors of coal mines of the State, being one for each district; the commissions of such inspectors to be for the term of one year. The first Board of Examiners, appointed by the Bureau of Labor Statistics, was composed of W. H. Emerson, president, coal operator, Astoria; John Maule, coal operator, Belleville; John Dixon, coal miner, Springfield; George Neilson, coal miner, Springfield; W. S. Cherry, mining engineer, Streator; John S. Lord, secretary of the Bureau of Labor Statistics, secretary. The board met at the State capital, August 16, 1883. At this meeting rules and regulations were formulated to govern at the examination for inspectors.

The first meeting for the examination was called to be held at Springfield Sept. 3, 1883; 32 candidates appeared to take the examination; those present represented 22 counties of the State; both day and night sessions were held for five days. The board established a rating a minimum of 75 per cent; only four of the 32 candidates passed the requisite percentage. These four were certified to the Governor for appointment, with the statement that an adjourned session of the board would be held Oct. 10, 1883, for further examination and recommendation. At this meeting of the board nine candidates appeared for examination, three of whom received the necessary ra-

ting, making in all seven persons, all of whom received certificates of competency and were recommended to the Governor as being qualified for appointment as State Inspectors of Mines. The following is a list of those who successfully passed the examination:

Walton Rutledge.....	Alton	James P. Cumming.....	Braceville
Alexander Ronald.....	Streator	William Atkinson.....	Braceville
Thomas Hudson.....	Galva	Thomas S. Cumming.....	Gardner
Robert Winning.....	Carterville		

From this number the following were appointed as the first State Inspectors of Coal Mines in Illinois:

First District.....	Alexander Ronald.....	Streator.....
Second District.....	Thomas Hudson.....	Galva.....
Third District.....	James P. Cumming.....	Braceville.....
Fourth District.....	Walton Rutledge.....	Alton.....
Fifth District.....	Robert Winning.....	Carterville.....

The second Board of Examiners assembled at the State capital, as required by law, the first week in September, 1884, and was composed of the following members: Alfred W. Perry, president, Geneseo, Henry Wood. Girard, coal operators; Alexander McDonald, Alton, John Keay, LaSalle, coal miners; W. S. Cherry, Streator, mining engineer; John S. Lord, secretary. At this meeting 11 candidates were present, four of whom were State Inspectors, whose terms would expire Oct. 1, 1884. Of the number taking the examination, five attained the required percentage and were certified to the Governor for appointment.

The following were appointed and commissioned as State Inspectors of Coal Mines for one year from Oct. 1, 1884:

First District.....	Alexander Ronald.....	Streator.....
Second District.....	Thomas Hudson.....	Galva.....
Third District.....	John Rollo.....	Streator.....
Fourth District.....	Walton Rutledge.....	Alton.....
Fifth District.....	Robert Winning.....	Carterville.....

The provisions of the mining law relating to the Board of Examiners and State Inspectors were amended by the 34th General Assembly (1885), making the date of the examinations the second week in September and the term of office two years for the Board of Examiners and for the State Inspectors.

The third examination was therefore called for the second week in September, 1885. The board consisted of General James S. Martin, president, Sandoval; H. E. Hamilton, Fairbury, coal operators; Alexander McDonald, Alton, John Harper, Colchester; coal miners; Jasper Johnson, LaSalle, mining engineer; John S. Lord, secretary. At this examination twenty candidates appeared before the board, eight of whom passed the technical qualifications satisfactorily to the

board. The following secured the required credits and were certified to the Governor as having special fitness for the office of State Inspector of Mines:

Robert Winning.....	Carterville	Thomas Hudson.....	Galva
John Keay.....	La Salle	Alexander Ronald.....	Streator
Walton Rutledge.....	Alton	John G. Massie.....	Millington
James Freer.....	Streator	Quintin Clark.....	Braceville

From the foregoing list the Governor appointed and commissioned the following as State Inspectors for a term of two years:

First District.....	Alexander Ronald.....	Streator.....
Second District.....	Thomas Hudson.....	Galva.....
Third District.....	James Freer.....	Streator.....
Fourth District.....	Walton Rutledge.....	Alton.....
Fifth District.....	Robert Winning.....	Carterville.....

The fourth examination for inspectors was held at Springfield the second week in September, 1887. The board of examiners consisted of H. H. Beach, president, Litchfield; A. W. Boyden, Sheffield, coal operators; Daniel McLaughlin, Braidwood, James Kirby, Barchi coal miners; Hugh Murray, Ava; mining engineer. Daniel McLaughlin was elected as president, and John S. Lord as secretary.

At this meeting seventeen candidates registered for the examination; the result showing that nine of these had passed successfully the standard of proficiency established by the board, as follows:

Walton Rutledge.....	Alton	W. W. Williams.....	Streator
Thomas Hudson.....	Galva	William Lewis.....	Streator
James Freer.....	Peoria	John Vose.....	Streator
Quintin Clark.....	Braidwood	Thomas J. Logan.....	Streator
James Taylor.....	Edwards		

The board issued certificates of competency to all of these persons and reported them to the Governor as qualified for inspectors, and at the same time specially recommended the appointment of the following for commissions:

First District.....	Quintin Clark.....	Braidwood.....
Second District.....	Thomas Hudson.....	Galva.....
Third District.....	James Freer.....	Peoria.....
Fourth District.....	Walton Rutledge.....	Alton.....
Fifth District.....	James Taylor.....	Edwards.....

The five persons last named were appointed, and duly commissioned as State Inspectors for two years from October 1, 1887.

The fifth examination was held at the State Capitol, beginning September 10, 1889. This board consisted of David Ross, president, Oglesby; J. D. Courtney, St. John; coal miners; George C. Simpson Gillespie; William Wilms, Springfield; coal operators; Hugh Murray, Sparta; mining engineer; John S. Lord, secretary. At this meeting seventeen candidates registered to take the examination. At the close of the examination, it was found from the ratings established that seven of the candidates had attained the requisite percentages and certificates of competency were issued as follows:

James Freer.....	Peoria	Walton Rutledge.....	Alton
Quintin Clark.....	Braidwood	Elisha Beadle.....	Kewanee
Thomas Hudson.....	Galva	James Taylor.....	Ashley
James Keay.....	Streator		

From these the Governor appointed and commissioned the following as inspectors of the several districts for two years:

First District.....	Quintin Clark.....	Braidwood.....
Second District.....	Thomas Hudson.....	Galva.....
Third District.....	James Freer.....	Peoria.....
Fourth District.....	Walton Rutledge.....	Alton.....
Fifth District.....	James Taylor.....	Ashley.....

The sixth examination was held in the State House, Springfield, beginning September 14, 1891. The members of the board, appointed by the Commissioners of Labor, were as follows: Richard Ramsey, president, Braceville; George C. Simpson, Springfield; coal operators; William Scaife, Coal City; John F. Goalby, Gillespie; coal miners; Hugh Murray, Sparta; mining engineer; J. D. Roper of the Bureau of Labor, secretary. The resignation of James Taylor, inspector of the Fifth District, was presented late in the fiscal year 1890 and accepted. Elisha Beadle, Kewanee, was appointed inspector as his successor, to serve until October 1, 1890.

The Board of Examiners met at the State Capitol, Aug. 3, 1891, there being a preliminary meeting for the purpose of organization and the adoption of rules and regulations to govern at the examination. One of the rules adopted, provided that each member of the board submit, on the day preceding the examination, a list of questions deemed suitable to be used for the written examination of candidates. From these lists the board would select and agree on a final list to be submitted to candidates. Another rule adopted was that all persons seeking appointment as inspectors must appear before this board, notwithstanding they may have passed former examinations, or may have served as inspectors. At the regular meeting of the board, candidates appeared to take the examination. In summing up the credits of proficiency shown by the several candidates it was found that 11 had successfully passed the required percentages, as follows:

Walton Rutledge.....	Alton	Thomas Hudson.....	Galva
James Freer.....	Peoria	John S. Wilson.....	Peoria
William G. Massie.....	Marissa	*Arthur Hay.....	Springfield
Elisha Beadle.....	Ashley	Thomas J. Logan.....	Streator
James Keay.....	Springfield	Thomas Weeks.....	Hallowayville
Quintin Clark.....	Braidwood		

*A modified certificate issued.

The board, from those who had passed the examination, recommended to the Governor the the following persons, who were appointed and commissioned as inspectors for two years:

First District.....	Quintin Clark.....	Braidwood.....
Second District.....	Thomas Hudson.....	Galva.....
Third District.....	James Freer.....	Peoria.....
Fourth District.....	Walton Rutledge.....	Alton.....
Fifth District.....	John G. Massie.....	Marissa.....

The Thirty-seventh General Assembly, 1891, increased and extended the duties of the Board of Examiners, by the passage of an act to take effect Jan. 1, 1892, intended to establish a standard of qualification for mine managers at all mines where the output is more than 25 tons a day. The law provided that all persons occupying such positions shall submit to an examination and hold certificates of competency or service, issued by the board. The meetings of the Board of Examiners, under this law, were to be held at such times and places as may be decided by the board; the compensation of the members to be \$3.00 a day, not to exceed 80 days in any year.

The seventh meeting of the Board of Examiners for the examination of candidates for State inspectors was held at Springfield, beginning Sept. 11, 1893; a preliminary meeting having been held July 13, 1893. The members of this board were: Patrick Meehan, president, Breeds; J. M. Browning, Duquoin; coal operators: George Evans, Lincoln; William McDonald, Braidwood; coal miners: J. E. Crane, Murphysboro, mining engineer; Bethune Dishon, secretary. Twenty-five candidates registered for examination. At the conclusion of the meeting it was found that 13 of the class had attained the required rating, as follows:

Walton Rutledge.....	Alton	T. S. Cumming.....	Gardner
Thomas Hudson.....	Galva	James A. Keating.....	Lincoln
Thomas Weeks.....	Streator	David Beveridge.....	Sorento
James Freer.....	Peoria	Henry E. Malloy.....	Decatur
Edward Fellows.....	Streator	John Keay.....	Springfield
Hugh J. Hughes.....	Litchfield	Henry Bangart.....	Lincoln
John G. Massie.....	Belleville		

To all of these certificates of competency were issued and the board reported the names to the Governor. From this list the following were appointed and commissioned as State inspectors of mines for two years:

First District.....	Thomas S. Cumming.....	Gardner.....
Second District.....	Edward Fellows.....	Streator.....
Third District.....	James A. Keating.....	Lincoln.....
Fourth District.....	John Keay.....	Springfield.....
Fifth District.....	Hugh J. Hughes.....	Litchfield.....

The Thirty-ninth General Assembly, 1895, further amended the mining laws, which imposed additional duties on the mining board and also increased the duties of the State inspectors of mines. One of the provisions enacted was that all persons assuming to discharge the duties of hoisting engineer or fire-boss at coal mines after July 1, 1896, should pass an examination before the State Board of Examiners.

and hold a certificate of competency issued by the board. The State was divided into seven inspection districts, thus increasing the number of State inspectors to seven instead of five, and also providing that all mines be inspected at least four times a year, and a fee ranging from six to ten dollars be assessed against each mine for these inspections. The State inspectors were also charged with the inspection of oil used in the coal mines of the State, and of scales used at the mines for weighing coal.

The eighth meeting of the Board of Examiners was held in Springfield, beginning October 12, 1895. The records do not show why this examination was held one month after the date provided by law. This board consisted of John M. Browning, president, Duquoin; Louis F. Lumaghi, Collinsville; coal operators; William McDonald Braidwood; Louis A. Graham, Jacksonville; coal miners: John E. Crane, Murphysboro; mining engineer: Bethune Dishon, secretary. Nineteen persons registered to enter the examination. When the rating established by the board had been summed up, it was found that thirteen of the candidates had attained the proper percentages, as follows:

Robert Winning.....	Carterville	Charles Duncan	Streator
James Bennett	Hallidayboro	Edward Fellows.....	Streator
James Keay.....	Springfield	Robert Pickett	Canton
Hugh J. Hughes.....	Litchfield	Henry Malloy.....	Decator
D. L. Jones.....	Taylorville	James H. Beatty.....	Mascoutah
Thomas S. Cumming.....	Gardner	Alfred C. Blake.....	Oakwood
James A. Keating.....	Lincoln		

From this list the following were appointed and commissioned by the Governor as inspectors of mines for the several districts for two years, from October 1, 1895, as follows:

First District.....	James A. Keating	Streator.....
Second District.....	Charles Duncan.....	Galva
Third District.....	Robert Pickett.....	Canton.....
Fourth District.....	Henry E. Malloy.....	Danville.....
Fifth District.....	John Keay.....	Springfield
Sixth District.....	Thomas S. Cumming.....	Belleville
Seventh District.....	James B. Bennett.....	Centralia

The Commissioners of Labor, in February, 1897, selected and appointed the following persons as the Board of Examiners: Richard Ramsay, Braceville; William Cruikshanks, Middle Grove; coal operators; John R. Thomas, Ladd; Thomas Haddow, Pana; coal miners: Hugh Murray, Sparta; mining engineer. This board met in Springfield, February 23, 1897, and organized by electing Richard Ramsay, president, and Eben Howells, secretary.

A meeting of the board was called for March 8, following, for the examination of State inspectors, the inspectors of the second, fifth and seventh districts having resigned.

The Board of Examiners met March 8, 1897, pursuant to the call, this being the first special meeting of the board. Owing to the illness of Hugh Murray, M. E., at the date of this meeting, the services of Thomas Stockett, Jr., M. E., of St. Louis, Missouri, were secured.

At this meeting 32 candidates were registered. Of this number the following 20 persons gained the required percentages and were granted certificates of competency:

Walton Rutledge	Alton	John E. Williams	Grape Creek
Thomas Hudson	Galva	Evan D. John	Barkley
Quintin Clark	Chicago	J. L. Swanberg	Danville
James Freer	Peoria	Samuel Simpkins	Streator
J. H. Beatty	Mascoutah	John Dunlop	Centralia
Alexander Skinner	Diamond	John Garrity	Riverport
James Taylor	Edwards	A. C. Blake	East Peoria
Thomas Weeks	Colfax	William Donaldson	Kangley
Leo Guck	Chicago	John Duddy	Pana
John G. Massie	Belleville	David McCrindle	Oglesby

From this number the Governor appointed and commissioned the following persons to fill the vacancies for the unexpired terms:

Second District	Thomas Hudson	Galva
Fifth District	Walton Rutledge	Alton
Seventh District	Evan D. John	Carbondale

The ninth regular meeting of the Board of Examiners for the examination of candidates for State Inspectors of Mines was held in Springfield, beginning Sept. 13, 1897. The resignation of John R. Thomas, miner, Ladd, having been presented to the Commissioner of Labor, Cochran Johnston was named as his successor. The members present at this meeting were: Richard Ramsey, president, operator, Braceville; Wm. Cruikshanks, operator, Middle Grove; Cochran Johnston, miner, Spring Valley; Thomas Haddow, miner, Pana; Hugh Murray, M. E., Sparta; Eben Howells, secretary, Braceville. Twenty-three candidates registered for this examination. At the conclusion of this examination it was found that 16 of the candidates had attained the proficiency established by the board as follows:

Walton Rutledge	Alton	Evan D. John	Carbondale
Thomas Hudson	Galva	Thomas Weeks	Colfax
James Freer	Chenoa	Alexander Skinner	Diamond
James Taylor	Edwards	Robert Pickett	Spring Valley
Alfred C. Blake	East Peoria	J. L. Swanberg	Danville
John Dunlop	Centralia	John E. Williams	Westville
T. S. Cumming	Belleville	John W. Graham	Dunfermline
Quintin Clark	Chicago	Hector McAllister	Streator

To each of the aforementioned persons certificates of competency were issued by the board, and all of them reported to the Governor as qualified for the office of Inspectors of Mines. From the foregoing list the Governor appointed and commissioned the following as State Inspectors for two years from Oct. 1, 1897:

First District	Hector McAllister	Streator
Second District	Thomas Hudson	Galva
Third District	John W. Graham	Dunfermline
Fourth District	John E. Williams	Danville
Fifth District	Walton Rutledge	Alton
Sixth District	John Dunlop	Centralia
Seventh District	Evan D. John	Carbondale

The Commissioners of Labor called a meeting of the Board of Examiners to be held in Springfield, March 1, 1898, for reorganization. This meeting was made necessary by the death of Richard Ramsay, operator, president of the board, which occurred at his home in Braceville, Ill., Jan. 16, 1898; also by the resignation of Thomas Haddow, miner, Pana, and William Cruikshanks, operator, Middle Grove. The Commissioners of Labor having selected the following persons to fill these vacancies: Richard Newsam, operator, Peoria; James Taylor, operator, Edwards, and Patrick McCann, miner, Lincoln. This Board of Examiners met March 1, 1898, and was organized as follows: Richard Newsam, president, Peoria; James Taylor, Edwards; operators; Cochran Johnston, Spring Valley; Patrick McCann, Lincoln, miners; Hugh Murray, M. E., Sparta; Eben Howells, secretary, Braceville.

At this meeting the following resolutions in memory of Richard Ramsay, late president of the board, was presented and adopted:

WHEREAS, By his ability, the standard and efficiency of this board has been raised to a condition not previously attained, and

WHEREAS, The deceased, by his wide knowledge of mining matters, practical and theoretical, and his aptness and ability in imparting such knowledge to the other members of the board, to the State Inspectors of Mines, and to others with whom he came in contact, was a most valued and competent presiding officer of this board; therefore

Resolved, That we pay a just and fitting tribute to his ability and memory when we mourn for him as one in every way worthy of our respect and esteem.

Resolved, That we sincerely condole with the widow and family of the deceased, and commend them to the keeping of Him who looks with tenderness on the widow and fatherless.

Resolved, That these resolutions be spread upon the records of this board, and that copies of the same be forwarded to the widow of our lamented friend, to the editor of the "Black Diamond" and to the newspapers of the State.

The Forty-first General Assembly, 1899, revised and enacted an entirely new law relating to mines and mining, which was prepared by the Bureau of Labor. Among the provisions of this law was the creating of a State Mining Board, to be appointed by the Commissioners of Labor, the board to consist of five members, two of the members to be practical coal miners, one an expert mining engineer, who shall, when practicable, be also a hoisting engineer, and two coal operators. The date of appointment to be from July 1, 1899, for two years, or until their successors are appointed and qualified. This board was to organize by electing one of its members as president, and a suitable person not a member as secretary. A meeting of the board was required to be held the second Tuesday in September, 1899, and biennially thereafter for the examination of candidates for State Inspectors of Mines, also to hold meetings at such times and places, within the State, as they might select, for the examination of candidates for certificates as mine managers, hoisting engineers and mine examiners. This law also provided that any one who had heretofore satisfactorily passed two of the State examinations for inspectors, and who had served acceptably as State inspector for two full terms, upon making written application to the board, shall be certified to the Governor as qualified for appointment as State Inspector.

The Commissioners of Labor called a meeting of the old mining board to meet in Springfield, July 1, 1899, for reorganization under the new law; all of the members reported as follows: Richard Newsam, Peoria; Hugh Murray, Nashville; James Taylor, Edwards; Patrick McCann, Lincoln; Cochran Johnson, Spring Valley.

The Commissioners of Labor designated the members of the mining board, to constitute the State Mining Board as provided under the law. The board met in special meeting(second special meeting) at Springfield, July 1, 1899, and organized by electing Richard Newsam, Peoria, president; Eben Howells, secretary, and Hugh Murray, mining engineer.

The ninth regular meeting of the board for the examination of State Inspectors, was held at the capital, September 12, 1899, all the members being present. At this meeting eight candidates registered. At the conclusion of this examination, it was found that the entire class had obtained the rating established by the board, as follows:

Thomas Hudson.....Galva	John E. Williams.....Danville
Walton Rutledge.....Alton	Hector McAllister.....Streator
Evan D. John.....Carbondale	John W. Graham.....Dunfermline
John Dunlop.....Centralia	David Wilson.....Spring Valley

The foregoing persons were duly reported to the Governor as being eligible for appointment as State Inspectors; excepting, however, David Wilson, who was not then a naturalized citizen of the State.

At a subsequent meeting, held Sept. 26, 1899, the board of examiners, reported to the Governor that David Wilson had completed his citizenship, also that James Freer, Peoria, had applied for the position as State Inspector, he having passed two former examinations, and served two terms as State Inspector. From the list of names reported by the board, the Governor appointed and commissioned the following as State Inspectors of Mines for two years from Oct. 1, 1899:

First District.....	Hector McAllister	Streator.....
Second District.....	Thomas Hudson.....	Galva
Third District.....	John W. Graham.....	Canton
Fourth District.....	John E. Williams.....	Danville
Fifth District.....	Walton Rutledge.....	Alton
Sixth District.....	John Dunlop.....	Centralia
Seventh District.....	Evan D. John.....	Carbondale.....

The term of office of the State Mining Board having expired July 1, 1901, the Commissioners of Labor having named a new board for one year from July 1, 1901, as follows: Richard Newsam, Peoria; Lee Kincaid, Athens, operators; William Atkinson, Murphysboro; Daniel Reece, Danville, miners; Hugh Murray, Nashville, mining engineer; called a meeting of these persons to be held in Springfield, Aug. 22, 1901.

At this meeting the mining board met and organized by electing Richard Newsam president, and Eben Howells secretary.

The meeting of the board for the examination of candidates for State Inspectors of Mines, was called to be held at Springfield. Sept. 9, 1901.

The board met conformable to the call. Twenty applicants registered, eight of whom made application to the board to be certified to the Governor for appointment, under the provision of the law, having passed previous examinations, and served as State Inspectors for two years. At the close of this examination, and summing up of the credits, it was found that James Taylor, Edwards, and Thomas Weeks, Colfax, had passed the required percentage established by the board. The following had filed their applications to be certified to the Governor, having passed two former examinations, and served two full terms as State Inspectors:

James Freer, Peoria.....	John E. Williams, Danville.....
Thomas Hudson, Galva.....	Evan D. John, Carbondale.....
Hector McAllister, Streator.....	John W. Graham, Canton.....
Walton Rutledge, Alton.....	John Dunlop, Centralia.....

All of these were reported to the Governor as qualified to perform the duties of State Inspectors of Mines. From this list of persons, the following were appointed and commissioned as State Inspectors for two years from October 1, 1901:

First District.....	Hector McAllister.....	Streator.....
Second District.....	Thomas Hudson.....	Galva.....
Third District.....	James Taylor.....	Peoria.....
Fourth District.....	Thomas Weeks.....	Bloomington.....
Fifth District.....	Walton Rutledge.....	Alton.....
Sixth District.....	John Dunlop.....	Centralia.....
Seventh District.....	Evan D. John.....	Carbondale.....

At the meet of the Mining Board, Jan. 12, 1903, it was advised of the death of Eben Howells, secretary, which occurred at his home in Springfield, Dec. 27, 1902. The board at once appointed two of its members to draft resolutions on the death of Mr. Howells; also appoint Miss Jane L. Ross, secretary pro tem. The following resolutions were presented and adopted by the board at its meeting held Feb. 17, 1903.

WHEREAS, Our esteemed late Secretary Mr. Ebenezer Howells, has been removed by death, and

WHEREAS, His honorable and efficient services, in connection with the Mining Board, affords us an opportunity of acknowledging our appreciation of him, both in his official and private life. Therefore be it

Resolved, That our feeling the resignation due towards the manifestation of Divine Providence and humbly accepting this dispensation from the Giver of Life, we wish to express our conviction that in his death the Mining Board sustains a severe loss and the State that of an honorable and faithful official.

At a meeting of the board held at Springfield, April 27, 1903, Eugene A. Pearse, Jacksonville, was elected secretary of the board.

The Mining Board, at a meeting held Aug. 18, 1903, at Springfield, called a meeting to be held in the State House, Sept. 8, 1903. for the examination of candidates for appointment as State Inspectors. The board met pursuant to the call, Sept. 8, 1903. Hugh Murray, Mining engineer, member of the board, having resigned, the Commissioners of Labor appointed as his successors Andrew Flesher, Taylorville, hoisting engineer. The organization of the board for two years was then perfected, as follows: Richard Newsam, Peoria, president and

mining engineer; Eugene A. Pearse, Jacksonville, secretary. At this meeting ten candidates registered for examination. At the close of the examination, seven candidates succeeded in attaining the required percentages established by the board as follows:

James Taylor, Peoria.....	Evan D. John, Carbondale.....
Thomas Weeks, Bloomngton.....	John Dunlop, Centralia.....
Walton Rutledge, Alton	Thomas Hudson, Galva.....
Hector McAllister, Streator	

These were certified by the board to the Governor as qualified for the position of State Inspectors of Mines. The Governor subsequently appointed and commissioned them as inspectors for two years as follows:

First District.....	Hector McAllister.....	Streator.....
Second District.....	Thomas Hudson.....	Galva
Third District.....	James Taylor.....	Peoria.....
Fourth District.....	Thomas Weeks.....	Bloomington.....
Fifth District.....	Walton Rutledge.....	Alton
Sixth District.....	John Dunlop.....	Centralia.....
Seventh District.....	Evan D. John.....	Carbondale

The resignation of Evan D. John, State Inspector of the Seventh District, was made to the Governor to take effect July 1, 1904.

The Mining Board called a special meeting for an examination of candidates for appointment to fill the vacancy, caused by the resignation of Inspector John, to be held July 13, 1904. This was the third special meeting of the board. Two candidates registered for the examination. At the conclusion of the examination, it was found that only one of the candidates, William Atkinson, Murphysboro, had secured the required rating fixed by the board, and he was duly certified to the Governor. The Governor appointed and commissioned Mr. Atkinson*, State Inspector for the Seventh District, to serve the unexpired term to Oct. 1, 1905.

The resignation of E. A. Pearse as secretary of the mining board was accepted at a meeting held Nov. 14, 1904, and Thomas Moses Westville was elected as his sucesor.

*William Atkinson, State Inspector of Mines, Seventh District, was killed in the mine at Zeigler, Illinois, April 3, 1905, his death was caused by inhaling after-damp.

FIRST INSPECTION DISTRICT—1904.

TWENTY-FIRST ANNUAL REPORT.

Counties—Grundy, Kankakee, LaSalle, Livingston, Will.

HECTOR McALLISTER, *Inspector*, Streator.

HON. DAVID ROSS,

Secretary, State Bureau of Labor Statistics, Springfield, Ill.

SIR—In compliance with section 12 of an act of the General Assembly of the State of Illinois, defining the duties of the State inspectors of coal mines, and providing for the health and safety of persons employed therein, I herewith submit the twenty-first annual report of coal mines in the first inspection district for the year ended June 30, 1904.

The district includes the coal producing counties of Grundy, Kankakee, LaSalle, Livingston and Will. The report contains tabulated statements, showing the number of mines in operation, both shipping and local; the depth of the shafts; thickness and geological number of the different seams; the number of new and abandoned mines; the total number of persons employed at each mine; the tons of lump and other grades of coal produced; the price per ton paid for mining; the value of lump and other grades of coal per ton at the mine and the aggregate value of the total product; the number of kegs of powder and the number of pounds of dynamite consumed; the number of steam boilers in use at the plants; the name and size of fan of each shaft; the casualties in and around the mines, both fatal and non-fatal; the number of wives made widows, and children left fatherless, caused by fatal accidents, also the number of days of active operation of all mines in the district.

The following is a summary for all the counties in the district:

Total number of mines	88
Number of shipping mines.....	41
Number of local mines	47
Number of new mines.....	20
Number of abandoned mines.....	6
Number of miners	5,840
Number of others underground.....	1,307
Number of boys underground	220
Number of employés above ground.....	671
Total number of employés	8,038
Total tons of coal produced, all grades.....	3,450,315
Total tons of mine run.....	400,933
Total tons of lump.....	1,958,400
Total tons of egg.....	246,530
Total tons of nut.....	103,694
Total tons of screenings.....	686,081
Total tons of slack, burned or wasted	53,677
Average value per ton of mine run at the mine, shipping mines.....	\$1.713
Average value per ton of lump.....	\$1.714
Average value per ton of egg.....	\$1.775
Average value per ton of nut.....	\$1.488
Average value per ton of screenings.....	\$0.531
Average value per ton of slack or waste.....	\$0.277
Aggregate value of the total product.....	\$4,811,973

Average price paid per gross ton for hand mining, shipping mines	\$0.778
Average number of days of active operation.....	208
Number of kegs of powder used.....	38,629
Number of pounds of dynamite used.....	30,017
Number of steam boilers in use at mines, horizontal.....	145
Number of fans in use at mines.....	39
Tons of coal shipped from the mines.....	2,731,845
Tons supplied to locomotives.....	170,746
Tons sold to the local trade.....	263,620
Tons consumed and wasted at the plants.....	284,104
Number of fatal accidents.....	13
Number of non-fatal accidents.....	70
Number of wives made widows.....	9
Number of children left fatherless.....	22
Tons of coal mined to each fatal accident.....	265,400
Tons of coal mined to each non-fatal accident.....	49,290
Number of employ�es to each fatal accident.....	618
Number of employ�es to each non-fatal accident.....	115
Rate of fatal accidents to 1,000 persons employed.....	1.6

The following statement gives the coal production, by counties in the First district, with the increase or decrease in each, for the years ended June 30, 1903 and 1904.

COUNTIES.	TOTAL OUTPUT OF ALL GRADES OF COAL IN TONS.		Increase.	Decrease.
	1903	1904		
Grundy	1,457,935	1,405,158	.....	52,777
Kankakee.....	58,195	53,405	.....	4,790
LaSalle	1,877,555	1,773,189	.....	104,366
Livingston.....	319,350	150,467	.....	168,883
Will.....	35,616	68,096	32,480	.....
Total	3,748,651	3,450,315	32,480	330,816
Net decrease.....	.....	.....	.....	298,336

The counties of Grundy, Kankakee, LaSalle and Livingston show a decrease in output of 330,816 as compared with the output of 1903. Will county shows an increase of 32,480 tons over that of 1903, leaving a net decrease for the district of 298,336 tons. The cause of the falling off in LaSalle county is largely due to the upper seams, of the Chicago, Wilmington and Vermillion Coal Co. at Streator, having been abandoned; the same may be said as to Livingston county, as both of the old mines at Pontiac in this county have been closed down.

NEW MINES.

The Chicago, Wilmington & Vermillion Coal Co., of Streator, LaSalle county, has abandoned the upper seam at its No. 2 mine, and sunk the hoisting shaft from the upper to the lower seam, a distance of 120 feet, making the total depth from the surface 245 feet; thickness of coal 3 1-2 feet, being No. 3 seam; it will be opened out on the long-wall system. The tower has also been remodeled, and the old second motion engine has been replaced by a pair of Danville first motion engines, size of cylinder 20x36.

The Home Coal Co., of Streator, LaSalle county, has opened out a new mine inside of city limits, both hoisting and escape shafts have been sunk to No. 7 seam; a switch has been put in from the Wabash Railroad.

The following four new mines have been opened out near Streator, LaSalle county: Joe Sowerby & Co., Thomas & Durham, Nelson & Stokes and Evans Bros. Mounts Bros. have also sunk a shaft near the surface of workings for an air and pumping shaft.

Felton & Voight have opened out the old mine two and a half miles north of Wilsman, formerly operated by Reed Bros., in LaSalle county. They have also sunk a new air shaft.

Mat White has opened a new mine southwest of Ottawa, LaSalle county.

Brookers Bros. have opened a new mine at Lowell, LaSalle county.

The Star Coal Co. of Kangley, LaSalle county, has sunk a new shaft near its No. 2 mine to No. 2 seam of the geological section. This mine will be opened out on the long-wall system.

The Brady Coal Co., Pontiac, Livingston county, has sunk a new shaft to No. 5 seam, one-fourth of a mile north of that city. It is located on the Illinois Central Railroad.

The Johnson Co-operative Coal Co., has sunk a new shaft one and a half miles west of Fairbury, Livingston county, on the Toledo, Peoria & Western Railroad.

Mounts Bros. have sunk a new shaft one and a half miles south of Streator, in Livingston county.

Massey Bros. have sunk a new shaft two miles south of Streator, in Livingston county.

Taylor & Cavanaugh, Carbon Hill, Grundy county, have sunk a new air shaft at the face of the southeast workings of their No. 5 mine. This has greatly improved the ventilation in that section of the mine.

The superintendent of the Big Four Wilmington Coal Co., William Harkis, has kindly furnished the following description of the No. 6 mine of that company, located at Eileen, a new mining town in Grundy county:

"This shaft is sunk on the southwest quarter of section 26."

HOISTING SHAFT.

The hoisting shaft sunk is in circular form and finished 13 feet in diameter in the clear, and is lined from the sand rock to the surface landing with a belt of concrete 14 inches in thickness. The depth of the shaft from the landing to the cage seats is 102 feet; this includes eight feet of surface filling, the entire surface plant being raised eight feet above the prairie level; the shaft is equipped with wire rope guides, four to each cage; the signal plan is Overhart's pneumatic system.

AIR SHAFT.

This shaft is likewise sunk circular and is nine feet in diameter, it is also lined with concrete 12 inches thick, from sand rock to the eight foot arbitrary level above the prairie. The fan house is built of concrete, and brick, the ceiling of the engine room is of steel, no wood being used except for the short rafters of the roof, there being less than 500 feet of lumber in the whole building, and this is protected by gravel roofing. The fan is 16 feet in diameter; Brazil type, coupled direct to a 9x14 Atlas horizontal engine; the engine and fan, also the walls, are all built on solid concrete, insuring that the alignment will not change; an extra heavy fan-shaft is used, requiring only two shaft bearings.

A reducing valve governor is fitted to the steam pipe, which keeps the steam at exactly 100 for the fan engine and pumps below, and also prevents any variation of boiler pressure reaching either pumps or engine.

BOILER ROOM.

This room is built of brick with heavy pilasters on concrete foundation eight feet high; the joists of the room are lathed on the inside with expanded steel lathing, on which is plastered an inch thick of a fire-proof cement coating; the roof sheeting is treated with a fire resisting composition; the boilers are two 150 horse-power, each internally fired and of the Scotch marine type; the shells are eight feet in diameter with a 50-inch Morrison corrugated furnace, built for a working pressure of 200 pounds. The steam draws from boilers; the various points are all independent pipes and each can be used as a unit.

HOISTING ENGINE ROOM.

This room is also built of brick, on concrete foundation, eight feet high, with steel ceiling and fire resisting roof; the hoisting engines are first motion 14x18 with a 36-inch drum; the drum is grooved cast iron, each rope feeding behind each other, to reduce the lead. A high speed Kimball engine is also installed with a 60-light dynamo and a switchboard.

TOWER.

The tower is built of wood, the loaded cars being weighed on top, on rails, no flat sheets being used; the cars are then dumped on a side dumping tippie, the empty car passing on to a switch back, where it engages an automatic chain, which places the car at the back of the cage. The tower is also equipped with a large double balance shaker screen, driven by a 6x9 Duplex engine; the tower and tippie house are the only parts of this plant on which insurance is carried. Two large pair of scales are placed, one at each end of the switches, the east pair weighing all empty cars passing to the mines, the west pair weighing all loads passing from the tippie. All railroad cars empty and loaded are so graded that the cars run by gravitation and are controlled by brakes.

SLOPE.

A slope traveling way for men and animals is driven from the surface and connects with the main bottom, seven feet high, timbered and planked throughout at a 33 per cent pitch, and is also provided with a hand rail. This slope is used as an escapement and is lighted by electricity during working hours.

MULE BARN.

A single story barn for the mules is located 300 feet from the slope mouth and will accommodate 50 mules; the stable is also equipped with a watering tank and mule washing arrangements and shoeing shop, the building being located inside of a 25-acre pasture, into which the mules are turned during idle time.

UNDERGROUND.

The main shaft bottom is driven northwest and southeast with main headings turned off at 90 degrees at each end of the shaft bottom; in front of the shaft are two small diameter turn-tables to turn the car 90 degrees into line with the cage; the empty car, leaving the cage, passes down a grade to a switch back and engages one of two chains northwest or southeast; immediately in front of the chain the cars are automatically oiled, the chain delivering the car at the top of each slope; enough gravitation is then secured to place the car at the extreme end of the shaft bottom, without any labor other than one cager.

The blacksmith shop is installed under an over cast, the fumes from which pass direct to the upcast; at the bottom of the upcast shaft is a large sum with a capacity of 10,000 gallons, built in four tight compartments, which enables cleaning out to be done without stopping. The pump room is made in the solid pillar and is ventilated by a narrow cut to the fresh air course, which keeps the pump room cool and clean.

METHOD OF WORKING.

The method of working is upon face long-wall, all roads being turned 90 degrees; a car with a frame over the wheels on a 24-inch gauge is used, carrying a load of 3,000 pounds, the weight of the car being 800 pounds; the car is fitted with solid ends with a chain hitching fixed to the car.

VENTILATION.

mine is designed for four main splits with three overcasts, all returns takes will be on the main roads.

ABANDONED MINES.

Gardner-Wilmington Coal Company's mine at Clark City has been abandoned. I inspected this mine February 19, 1904, and found it in an unimproved condition, owing to a dangerous accumulation of black damp, also of gas in different parts of the upper seam, which had been abandoned for some time. There is only a thin strata of shale and coal between the upper and lower seams at this place. Many breaks and cavings have occurred at various times and black damp has escaped through these breaks in large quantities, endangering the lives of the men working in the lower seam. Since making this inspection, the mine had been idle for over two months and all the mules had been taken out, owing to a fire at the bottom escape shaft. I immediately notified the superintendent of the dangerous condition of the mine, also that it must be closed down at once. He ordered the men to take out their tools and the mine was abandoned.

Pontiac Coal company, Pontiac, Livingston county, has abandoned its

Brothers have abandoned their mine south of Streator, in Livingston

Taylor has abandoned his mine south of Ottawa, LaSalle county.

May & Stevie of Streator, LaSalle county, have abandoned their mine.

IMPROVEMENTS.

Oglesby Coal company, Oglesby, LaSalle county, has completed the escape shaft to the middle of its mine; a traveling way has been partitioned off the air chamber and a good and substantial stairway has been put in. A new stairway in the slope has been completed from the middle to the bottom seam, and a new passageway made from the bottom of the slope to the haulage road; the air course has been cleaned out, which has greatly improved the ventilation of the mine.

Matthiessen & Hegeler Zinc company, LaSalle has retimbered the bottom part of the escape shaft and put in stairways in its mine.

PROSPECTIVE MINES.

Star Coal company, Kangley, LaSalle county, is sinking a new hoist shaft at the face of the workings two miles south-west of its No. 2 mine. It will do away with the long rope haulage. A switch has been built to connect from the Chicago, Burlington & Quincy railway. The company is sinking a new shaft to No. 2 seam, near its No. 2 mine at Kangley; this shaft will be opened on the long-wall system.

Mcme Coal company, Streator, LaSalle county, is sinking a new shaft at the face of the workings as an escapement and air shaft.

Sam McMillin is sinking a new shaft near Streator, LaSalle county, to develop local trade.

FATAL ACCIDENTS.

March 3, 1903, Dominic Bertigall, miner, aged 30 years, married, was killed at the face of his working place, by a fall of rock in the Gardner-Wilmington Coal company's mine, located at Clark City, Kankakee county. He leaves a widow.

April 12, 1903, Victor Ferrara, miner, aged 40 years, married, was killed at the face of his working place, by a fall of rock, in Taylor & Hughes's No. 4 mine, located at Carbon Hill, Grundy county. He leaves a widow and one child.

Sept. 16, 1903, Seb. Romagnolis, miner, aged 19 years, single, was killed instantly by falling down the shaft of the Chicago, Wilmington & Vermillion Coal company No. 1 mine, South Wilmington, Grundy county. Deceased with three other men were on the cage coming out of the shaft; when about 30 feet from the lower landing, deceased let loose of the handle bar, turning round, presumably to get off at the lower landing, when he fell to one side of the shaft, the cage passing him, he fell to the bottom, a distance of 165 feet.

Oct. 8, 1903, Paul Segia, miner, aged 28 years, single, was injured by a fall of rock, in his roadhead; he died Feb. 24, 1904, four and one half months after receiving the injuries.

Oct. 17, 1903, Tony Claretz, driver, aged 35 years, married, was fatally injured in Mrs. E. Hakes mine, Rutland, LaSalle county. Deceased was coming down grade with a loaded trip and was sitting on the front end of the car, when his head struck against the roof breaking his neck; he died the following day. He leaves a widow and two children in Italy.

Jan. 4, 1904, Mateo Treaso, miner, aged 42 years, married, was fatally injured at the face of his working place by a fall of rock, in Taylor & Cavanaugh's No. 5 mine, Carbon Hill, Grundy county. Deceased was brushing his roadhead when a large rock fell on him causing injuries from which he died the following day. He leaves a widow and one child.

Jan. 26, 1904, Florent Mayhein, miner, aged 44 years, married, was killed instantly by a fall of rock in his roadhead in the No. 6 mine of the Wilmington Star Mining Co., Coal City, Grundy county. He leaves a widow and three children.

March 10, 1904, Frank Novac, miner, aged 46 years, married, was killed instantly by a fall of rock, at the face of his working place in Taylor & Cavanaugh's No. 5 mine, Carbon Hill, Grundy county. Deceased after firing a shot immediately returned to observe the effects when a large rock fell on him with the result as stated. He leaves a widow and six children.

March 18, 1904, William Smith, miner, aged 24 years, single, was killed instantly by a fall of rock, at the face of his working place in the No. 1 mine of the Chicago, Wilmington & Vermillion Coal Co., Heenanville, LaSalle county.

April 9, 1904, Peter Doreen, miner, aged 45 years, married, was killed instantly by a fall of rock at the face of his working place in No. 5 mine, Taylor & Cavanaugh, Carbon Hill, Grundy county. He leaves a widow and one child.

May 10, 1904, Fred Cossatto, miner, aged 27 years, married, was killed instantly by a fall of rock at the face of his working place, in the No. 4 mine of the Wilmington Coal Mining & Mfg. Co., Grundy county. He leaves a widow and one child.

June 19, 1904, James Minyetta, miner, aged 30 years, single, was fatally injured by a fall of rock in No. 6 mine of the Big Four Coal Co., Eileen Grundy county. Deceased fired a shot in the right hand side of his place which loosened a rock. He neglected to secure it with a prop when it fell on him inflicting injuries from which he died the following day.

June 25, 1904, John Roebock, miner, aged 41 years, married, was severely burned by an explosion of powder in the Star Coal Co.'s No. 2 mine, Kangle LaSalle county. Deceased was filling a cartridge, in raising up, he struck his head against the roof, knocking the lamp from his head, it fell in a keg of powder, causing the explosion; he was removed to the hospital at Streator, where he died of his injuries June 30. He leaves a widow and four children.

The tables of fatal and non-fatal accidents follow, also the county tables of the mines in the district.

Respectfully submitted,

HECTOR MCALLISTER,
State Inspector of Mines, First District, Streator, Ill

Fatal Casualties—First District—July 1, 1904.

Age.	NAME.	Occupation.	Residence.	Married.	Widows.	Children.	Single.	Dependent.	Cause of accident.
33.	9 Dominic Bertigall	30 Miner.	Clay City..	1	1			1	Falling rock
12	Victor Ferrara.	40 Miner. .	Carbon Hill	1	1	1		1	Falling rock
16	Seb. Romagnolis ..	19 Miner.	S. Wilm'gtn .				1		Falling down shaft.
8	Paul Segia...	28 Miner.	Coal City..					1	Falling rock
17	Toney Claretz....	35 Driver. . .	Rutland ..	1	1	2		3	Head striking roof.
04.	4 Mateo Treaso....	42 Miner. . .	Carbon Hill	1	1	3		1	Falling rock
26	Florent Mayhein.	44 Miner.	Coal City..	1	1	3		3	Falling rock
10	Frank Novac....	46 Miner. . .	Carbon Hill	1	1	6		2	Falling rock.
18	William Smith	24 Miner.	Streator.				1		Falling rock.
9	Peter Doreen . . .	45 Miner . .	Carbon Hill	1	1	1		1	Falling rock.
10	Fred Cassatto.	27 Miner....	Diamond	1	1	2		2	Falling rock.
19	James Minvetta . .	30 Miner. . .	Eileen.....				1		Falling rock.
25	John Roebock....	41 Miner. . .	Kangley . .	1	1	4		4	Gas explosion....
	Total ..	13		9	9	22	4	18	

Recapitulation of Fatal Casualties—First District—July 1, 1904.

RESIDENCE.	No	Occupation.	No	Nature of Casualty.	No	Colliery.	No
Coal City..	1	Driver . .	1	Explosion of powder	1	Big 4 Coal Co....	1
Coal City....	2	Miners. . .	12	Falling rock.....	10	C. W. & V. Coal Co....	2
Carbon Hill..	4			Pit car and roof . . .	1	Gardner Wilm Coal Co	1
Diamond . .	1			Falling down shaft.	1	Mrs. E. Hakes. . .	1
Streator. . .	1					Star Coal Co.	1
Kangley. . .	1					Taylor & Cavanaugh . .	4
Rutland . . .	1					Wilm Coal M & Mfg. Co	1
Streator. . .	1					Wilm Star M. Co . . .	2
Wilmington	1						
Total	13		13		18		13

Non-Fatal Casualties—First District—July 1, 1904.

Date.	NAME.	Age	Occupation.	Residence. (Town.)	Name of mine.	Married.	Single.	Children.	No. persons dependent.	Character of injury and cause of accident.	Time lost— days.
1903											
July	8 A. Miller	37	Miner	So. Wilmington	No 1	1		3	4	Collar bone broken; falling coal	49
	20 Geo. Plasko	37	Miner	Streator	Acme	1		1	1	Face and hand burned; expl'n of gas.	65
	20 Geo. Lisko	45	Miner	Streator	Acme	1		1	2	Face and hand burned; expl'n of gas.	65
	22 Florence Corcini	28	Miner	Clark City	Clark City	1		1	2	Leg broken, by pit car	103
	23 Braggs Seclain	21	Miner	So. Wilmington	No 1	1		1	1	Shoulder bruised; falling rock	91
	24 Alfred Delbar	28	Driver	LaSalle	Rockwell	1		1	1	Ankle broken; pit car	95
Aug.	30 Dugal Sleuth	28	Cager	So. Wilmington	No 2	1		1	1	Back injured; lifting pit car	47
	3 Mike Olivette	35	Miner	So. Wilmington	No 1	1		1	1	Hand mashed; falling rock	77
	5 Frank Kratufel	18	Miner	Braidwood	No 4	1		1	1	Finger mashed; falling coal	35
	10 James Kinniski	62	Miner	LaSalle	Cahill	1		1	1	Foot mashed; falling coal	30
Sept.	7 Alfred Mentune	30	Miner	So. Wilmington	No 1	1		1	3	Foot broken; falling rock	49
	9 John Bedner	58	Miner	Kangley	No 2	1		1	5	Back injured; falling rock	30
	15 Anton Ferretti	53	Miner	Clark City	Clark City	1		1	6	Leg injured; falling rock	30
	24 Anton Koberk	52	Miner	Braidwood	No 5	1		1	5	Eye injured; steel from wedge.	98
	25 James Ambrosia	45	Miner	So. Wilmington	No 1	1		1	3	Leg injured; falling coal	77
Oct.	26 Anton Leff	43	Miner	Coal City	No 5	1		1	5	Body injured; falling rock	60
	17 Wm. Williams	51	Miner	LaSalle	Rockwell	1		1	5	Leg broken; falling rock	63
	28 Castant Fassett	33	Miner	So. Wilmington	No 1	1		1	8	Body injured; falling rock	63
Nov.	30 Anton Mensch	43	Roadman	Peru	Union	1		1	2	Body injured; falling rock	56
	6 John Rouch	22	Driver	Kangley	No 2	1		1	2	Leg broken; pit car	24
	16 John Larson	58	Miner	So. Wilmington	No 1	1		1	1	Ribs broken; falling coal	24
	17 C. Shannan	22	Driver	Carbon Hill	No 5	1		1	1	Toe cut off, by mule	24
	29 James Arthur	22	Driver	Coal City	No 5	1		1	1	Leg broken; pit car	90
Dec.	1 Louis Toutori	29	Miner	Cardiff	No 2	1		1	5	Leg injured; pit car	47
	5 John Cooper	59	Miner	Braidwood	No 4	1		1	6	Ankle injured; falling rock	63
	8 John Mulligan	38	Miner	Braceville	No 5	1		1	4	Back and foot injured; falling rock	63
	8 Andrew Galliger	45	Miner	Streator	No 2	1		1	4	Knee dislocated; falling rock	60
	8 D. Bonocessi	26	Miner	Clark City	Clark City	1		1	1	Body bruised; top of pit car	50
	9 August Miller	56	Miner	Ogleby	No 2	1		1	1	Leg broken; falling coal	65
	11 James Ferguson	24	Driver	Streator	No 1	1		1	1	Finger mashed; pit car	51
	18 Dons McCormick	50	Driver	Kangley	No 2	1		1	3	Leg broken; pit car	55
	26 Nick Macalouse	32	Miner	Diamond	No 5	1		1	3	Knee injured; falling rock	55
	30 Chris Karlowaki	41	Miner	LaSalle	Rockwell	1		1	3	Back bruised; falling coal	57
1904											
Jan.	4 August Mincut	34	Miner	LaSalle	No 1	1		1	4	Foot broken; falling coal	42
	9 Joe Rolando	49	Miner	Diamond	No 4	1		1	4	Hand injured; falling coal	42

2	John Cook	Miner.	Streator	Acme	1	1	5	Leg broken; falling rock.	90
5	John Brucki	Miner.	LaSalle	Rockwell	1	1	1	Face cut, leg injured; falling rock.	30
8	William Jones	Driver	Clark City	Clark City	1	1	1	Foot injured, pit car	30
11	William Cadman	Driver	Streator	No 1	1	1	1	Toe mashed, falling rock.	60
16	Martin Barker	Driver	Oglesby	Oglesby	1	1	2	Hand mashed; pit car	50
23	John Fink	Miner	Streator	No 1	1	1	3	Ribs broken; falling rock.	90
28	Har Columbus	Miner	Braidwood	No 5	1	1	7	Back bruised; falling coal	35
24	James Marsaglia	Miner	Coal City	No 5	1	1	8	Leg broken; falling rock.	100
25	D. Beala	Miner	Kangley	No 2	1	1	6	Leg injured, falling rock.	30
29	Lewis Morrow	Miner	Coal City	No 6	1	1	1	Leg broken, falling rock.	90
29	Joe Ferraro	Miner	So. Wilmington	No 2	1	1	1	Shoulder bruised, falling coal.	42
6	J. N. Wilkinson	Miner	Streator	Acme	1	1	1	Leg broken, falling rock.	60
7	Matt Poushla	Miner	LaSalle	Rockwell	1	1	1	Leg broken; falling rock.	51
11	Legnatz Kaydom	Miner	LaSalle	Deer Park	1	1	1	Back bruised; falling rock.	49
16	John Godza	Miner	So. Wilmington	No 1	1	1	1	Leg injured by crowbar	70
22	Edward Allen	Driver	So. Wilmington	No 1	1	1	1	Leg injured by pit car	35
23	J. M. Winsefski	Miner	Peru	Union	1	1	1	Finger cut off; falling rock	58
23	James Wilson	Miner	Diamond	No 4	1	1	1	Hand mashed, falling coal	42
2	Jas Stratt, Jr	Miner	So. Wilmington	No 2	1	1	1	Leg injured by pit car	49
5	Fred Lille	Miner	LaSalle	Union	1	1	1	Head cut, falling rock	45
13	Rick Alham	Miner	So. Wilmington	No 2	1	1	1	Hand mashed, falling coal	42
13	Joe Muzrelli	Miner	So. Wilmington	No 1	1	1	4	Back bruised, falling coal	55
14	John Bramle	Miner	So. Wilmington	No 1	1	1	6	Leg injured by pit car	35
27	Anton Trumpalla	Miner	LaSalle	Rockwell	1	1	7	Leg broken; falling coal	40
29	William Pursehouse	Miner	Streator	No 1	1	1	4	Foot injured, falling rock	35
11	Peter Yeard	Roadman	Streator	No 2	1	1	1	Foot injured; falling rock	40
12	Bat Alboco	Miner	Streator	No 1	1	1	1	Leg injured; falling rock	35
9	Edward Timm	Miner	So. Wilmington	No 1	1	1	3	Leg broken; falling rock.	40
11	Joe Martin	Miner	LaSalle	Rockwell	1	1	1	Foot injured; falling rock.	40
25	John Marydoo	Miner	LaSalle	No 1	1	1	5	Back injured; falling rock	40
27	Chas. Kastenlin	Miner	LaSalle	Rockwell	1	1	1	Face cut; falling rock	40
									5,132
									3,132

• Not recovered July 1, 1904.

Total number of men injured	20	Time lost by men recovered	3,132 days
Not recovered July 1, 1904	12	Average days lost by men recovered	54
Number recovered July 1, 1904	58		

Recapitulation of Non-Fatal Casualties—First District—July 1, 1904.

Residence.	No.	Occupation.	No.	Nature of Casualty.	No.	Colliery.	No.
Braceville.....	2	Cager	1	Crowbar	1	Acme.....	4
Braidwood	4	Drivers	9	Explosion gas	2	Braceville	3
Cardiff.....	1	Miners.....	37	Falling coal	16	Cardiff	1
Carbon Hill.....	1	Roadmen	3	Falling rock	35	Cabill, James.....	1
Coal City	4			Flying steel	1	C. W. & V. Coal Co	2
Clark City	4			Mule	1	Gar. Wilm. Coal Co	1
Diamond	3			Pit cars	14	Illinois Zinc Co	2
Kangley	4					LaSalle C. C. Co.....	12
LaSalle.....	15					M. & H. Zinc Co.....	1
Oglesby	2					Oglesby Coal Co.....	1
Peru	2					Star	1
Streator	10					Taylor & Cavanaugh	1
S. Wilmington	18					Wilm. C. M. & Mfg. Co	1
						Wilm. Star M. Co.....	1
Total.....	70		70		70		70

*Recapitulation of Non-Fatal Casualties, Nature of Injuries, Con-
jugal Relations and Time Lost—First District—July 1, 1904.*

NATURE OF INJURIES.	Number.	Married.	Single.	Dependents.	TIME LOST.		Per cent of injuries
					Total days.	Average days.	
Ankle broken.....	1	1		1	36	36	1.4
Ankle injured.....	1	1		5	63	63	1.4
Ankle dislocated.....	1		1				1.4
Bodies injured.....	33	9	12	12	110	36.6	4.3
Back injured	7	3	2	25	264	36.3	10.0
Back and leg injured.....	1		1		63	63	1.4
Back and foot injured.....	1	1		6	63	63	1.4
Collar bone broken.....	1	1		4	49	49	1.4
Eye injured.....	1	1		6	98	98	1.4
Face and hands burned.....	3	1	1	3	130	65	2.8
Face cut	2	1	1	2			2.8
Fingers mashed.....	3		3		136	45.3	4.3
Finger cut off	1		1		58	58	1.4
Feet injured	7	4	3	3	204	41	10.0
Hand injured	6	3	3	10	265	49	9.3
Head cut	1		1		45	45	1.4
Knee injured	1	1		3	35	35	1.4
Knee dislocated.....	1	1		4	60	60	1.4
Legs broken	13	7	6	21	758	58.3	18.3
Legs injured	9	3	6	18	373	41.4	12.3
Ribs broken.....	2	2		6	174	87	2.8
Shoulder injured.....	2		2		133	66.5	2.8
Side injured.....	1	1		2	35	35	1.4
Toe cut off	1	1		1			1.4
Toe injured.....	1		1		60	60	1.4
Totals, average and percentage.....	70	38	32	132	3,122	54.2	100.0

*Still idle.

Grundy County—First District—1904.

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE.				
			Total	Mine run	Lump.	Egg	Not
SHIPPING MINES.							
1	Chicago, Wil. & Ver. C. Co., No. 1	S. Wilmington	283,325		165,406	61,232	
2	Chicago, Wil. & Ver. C. Co., No. 2	S. Wilmington	185,245		98,095	51,115	
3	Braceville Coal Co., No. 5	Braceville	156,799		122,004		
4	Taylor & Cavanaugh, No. 5	Carbon Hill	136,166	181	101,348		
5	Big Four Wilm. Coal Co., No. 3	Coal City	128,268	494	77,042		17,734
6	Wilmington Star Min. Co., No. 6	Coal City	103,812	80	52,603	1,300	18,000
7	Wil. Coal Min. & Mfg. Co., No. 4	Diamond	95,874		74,197		
8	Wil. Coal Min. & Mfg. Co., No. 5	Diamond	91,781		71,350		
9	Wilmington Star Min. Co., No. 5	Coal City	73,715	25	54,284		2,728
10	Big Four Wilm. Coal Co., No. 2	Coal City	64,750		32,131		13,539
11	Braceville Coal Co., No. 6	Braceville	30,179	2,581	19,481		
12	Taylor & Cavanaugh, No. 4	Carbon Hill	19,545	183	14,172		
13	Big Four Wilm. Coal Co., No. 6	Eileen	5,883		1,956		2,665
14	Wilmington Star Min. Co., No. 7	Coal City	1,510	285			
Totals			1,876,852	3,779	884,069	113,647	55,066
LOCAL MINES.							
1	Espley & Handwerk, No. 1	Morris	5,500		4,400		
2	J. K. Telfer, Telfer	Morris	3,595		3,000		
3	William Wood, Wood, No. 5	Morris	3,300		2,800		
4	Frank Gilbride, Gilbride	Morris	2,840		2,620		
5	Mitchel Bros	Morris	2,750		2,350		
6	James Heather	Morris	2,523		2,300		
7	Byrens & Fleming, Bluff Mine	Morris	2,500		2,300		
8	James Bell	Morris	2,176		1,751		
9	John Cryer	Morris	2,025		1,900		
10	Henry Tesdall	Morris	897		876		
11	R. Blair	Morris	200		200		
Totals			28,306		24,497		
Totals—25 mines.			1,405,158	3,779	908,566	113,647	55,066

Mines in 1903, 22.
New mines, 3.
Mines in 1904, 25.

Grundy County—First District—Concluded.

Tons.		Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
Pea or screenings.	Slack or waste.		Average number of miners.	All other employes.	Total	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
56,687	.. ..	\$414,348	477	108	585	274,865	...	1,911	6,749	236	283,325	1
36,035	.. ..	271,241	300	76	376	171,116	...	7,380	6,749	232	183,245	2
84,786	.. ..	218,715	230	74	304	147,819	...	3,000	4,480	280	156,799	3
25,512	9,125	155,393	229	56	285	123,507	...	3,584	9,125	230	136,166	4
27,538	5,470	146,081	242	56	298	122,796	...	...	5,470	191	128,268	5
28,784	2,639	109,259	150	70	220	101,173	...	...	2,639	248	103,812	6
19,677	2,000	115,131	240	78	313	90,682	...	3,192	2,000	206	95,874	7
17,431	3,000	109,485	210	58	268	88,781	...	...	3,000	240	91,781	8
13,149	3,465	85,747	115	80	195	65,619	...	4,631	3,465	247	73,715	9
16,151	2,950	70,819	138	53	191	59,700	...	2,100	2,950	174	64,750	10
8,117	...	52,663	82	40	122	28,124	...	...	2,055	138	30,179	11
4,040	1,200	21,972	97	49	146	18,345	...	...	1,200	70	19,545	12
1,192	90	6,888	84	38	122	5,793	...	...	90	21	5,883	13
..	1,225	707	24	12	36	285	...	...	1,225	60	1,510	14
289,108	31,164	\$1,778,499	2,618	843	3,461	1,297,907	...	25,748	53,197	220	1,376,852	
1,100	.....	\$11,220	10	2	12	.....	.....	5,300	300	275	5,500	1
565	.....	7,674	10	2	12	.....	.....	3,295	300	270	3,595	2
500	.....	8,200	8	1	9	.....	.....	3,300	.....	280	3,300	3
220	.....	7,425	6	1	7	.....	.....	2,840	.....	210	2,840	4
400	.....	6,862	6	1	7	.....	.....	2,750	.....	225	2,750	5
223	.....	6,548	5	1	6	.....	.....	2,523	.....	215	2,523	6
200	.....	6,525	5	1	6	.....	.....	2,500	.....	208	2,500	7
425	.....	5,240	5	1	6	.....	.....	2,178	.....	200	2,178	8
125	.....	5,350	4	1	5	.....	.....	2,025	.....	210	2,025	9
21	.....	2,649	4	1	5	.....	.....	866	31	166	897	10
..	.....	600	2	.....	2	.....	.....	200	.....	100	200	11
3,809	.....	\$68,293	65	12	77	.....	.....	27,775	531	212	28,306	
292,917	31,164	\$1,846,792	2,663	855	3,538	1,297,907	...	53,523	53,728	.....	1,405,158	

NOTE.—Price paid for hand mining, shipping mines: From July 1, 1903, to April 1, 1904, \$0.87; from April 1, 1904, to July 1, 1904, \$0.84; average price for the year, \$0.8624 per ton.

NOTE. Average price paid for hand mining, local mines, for the year, \$1.416 per ton.

Kankakee County—First District—1904.

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE-				
			Total.	Mine run.	Lump.	Egg.	Nut.
SHIPPING MINES.							
1	Gardner-Wilmington Coal Co., B	Clark City	53,405	2,353	35,687	.....	3,832

Mines in 1903, 1.
Mines in 1904, 1.

Kankakee County—First District—Concluded.

IN TONS.		Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
Pea or screenings	Slack or waste.		Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
10,263	1,270	\$32,964	112	82	194	15,068	31,659	1,825	4,853	174	53,405	1

NOTE.—Price paid for hand mining, shipping mines, \$0.87 per ton.

LaSalle County—First District—1904.

			OUTPUT OF MINES.				
Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	Total	Mine run.	Lump.	Egg.	Not.
SHIPPING MINES.							
1	LaSalle Co. Carbon Coal Co., No. 1	LaSalle	189,789	7,389	187,340	15,204	196
2	Acme Coal Co., Acme	Streator	166,280		86,744		13,086
3	LaSalle County Carbon Coal Co. Union	LaSalle	166,085	417	89,720	42,897	
4	LaSalle County Carbon Coal Co., LaSalle	LaSalle	163,078	41,665	85,087	4,324	8,997
5	Chl., Wilm. & Ver. Coal Co., No. 2	Streator	159,562	1,213	96,370		
6	LaSalle County Carbon Coal Co., Rockwell	LaSalle	153,456	9,239	85,783	33,176	
7	Star Coal Co., 2	Kangley	122,189	4,726	85,856		6,527
8	Oglesby Coal Co., Oglesby	Oglesby	113,016	19,243	70,945	523	2,367
9	Matthieson & Hegeler Zinc Co., M. & H. Zinc Co.	LaSalle	103,557	105,557			
10	Mrs. Emerson Hakes, No. 2	Rutland	104,814	26,863	63,012		
11	Chl., Wilm. & Ver. Coal Co., No. 1	Streator	97,975		33,388	30,306	
12	Estate James Cahill, Cahill mine	Peru	72,000		61,000		
13	Illinois Zinc Co., Deer Park	Peru	68,652	68,652			
14	William Francis, No. 2	Streator	11,000		7,500		
15	North Wilmington Coal Co., No. 1	Seneca	8,190	8,190			
16	Howe Coal Co., No. 1	Streator	7,952	1,310	4,954		
17	Star Coal Co., No. 4	Kangley	5,147		3,906		
Totals			1,714,722	294,474	911,594	126,400	30,986
LOCAL MINES.							
1	Marseilles Coal Mining Co., No. 1	Marseilles	25,836	24,857			
2	Mounts Bros., No. 1	Streator	10,686		6,674		
3	Jos. Sowerby & Co., No. 1	Streator	5,816	5,400	216		
4	Haar Bros., Haar Bros.	Streator	2,600		1,900		
5	Oscar Kimes, Kimes mine	Streator	2,300	2,300			
6	Lewis Evans, Evans mine	Kangley	1,646	1,646			
7	Evans Bros., No. 2	Streator	1,600		1,100		
8	Thos. Smith & Sons, No. 1	Streator	1,600		1,100		
9	Nelson & Stokes, 1	Streator	906		680		
10	John McNeil, McNeil	Kangley	900		700		
11	W. Thomas & Co.	Streator	822		556		
12	Bargreen Bros.	Streator	522		482		
13	Felton & Voight	Streator	520		400		
14	Mat White, No. 1	Ottawa	350		200		
15	Brookers Bros.	Lowell	340		275		
16	Daniel Vazaine	Ottawa	250		200		
17	Jos. W. McCullough	Ottawa	250		210		
18	T. B. Farrell	Ottawa	240		200		
19	Ringer & Hochstetter	Ottawa	240		210		
20	Myer & Hendee	Ottawa	230		200		
21	William Mertz	Ottawa	220		190		
22	James Edson	Ottawa	213		180		
23	L. W. Brewer	Ottawa	200		175		
24	William Saxby	Ottawa	200		165		
Totals			58,467	34,203	16,013		
Totals—41 mines			1,773,189	328,677	927,607	126,400	30,986

Mines in 1903, 35.

New mines, 9.

Abandoned mines, 3.

Mines in 1904, 41.

LaSalle County—First District—Concluded.

Tons.	Pea or screenings.	Slack or waste.	Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
				Average number of miners.	All other employes.	Total	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
9,680			\$334,247	280	121	381	182,847		1,599	5,843	242	189,789	1
1,508			192,406	215	71	286	125,568		10,789	29,903	281	166,260	2
1,061			286,724	286	120	386	92,932	30,901	38,599	5,638	250	166,083	3
1,125			279,884	218	97	315	83,904	48,875	21,525	8,774	255	163,078	4
1,979			200,553	231	100	331	149,530		505	9,527	213	159,562	5
5,238			258,581	238	76	314	153,456				240	153,456	6
2,156		2,925	157,964	171	69	240	117,393		1,671	2,925	234	122,189	7
3,904		6,044	194,341	190	97	287	102,631		4,341	6,044	221	113,016	8
			184,725	57	36	93		968	5,252	99,347	288	105,557	9
1,289		3,650	148,369	180	45	225	69,329	28,863	4,972	3,650	262	104,814	10
4,271			123,583	183	71	254	90,376		5,899	1,908	269	97,975	11
8,500		2,500	126,750	130	46	176	30,000	22,000	18,000	2,000	267	72,000	12
			127,006	85	55	140	67,620		288	744	303	68,652	13
3,500			18,200	10	5	15	160		10,840		240	11,000	14
			19,410	22	10	32	5,345		2,164	681	283	8,190	15
1,688			13,488	18	9	27	1,885		5,867		90	7,950	16
1,241			6,441	10	2	12	4,213		934		181	5,147	17
6,140	15,119		\$2,682,829	2,484	1,080	3,514	1,277,211	129,597	181,235	176,679	258	1,714,722	
		979	\$50,204	60	13	73				25,838	280	25,838	1
3,942		50	19,009	14	4	18			10,666		300	10,666	2
200			8,392	10	1	11			5,756	60	316	5,816	3
		700	4,435	4	1	5			2,500	100	300	2,600	4
			3,450	4		4			2,900		240	2,900	5
			3,292	4	1	5			1,846		200	1,846	6
500			2,835	6	1	7			1,600		230	1,600	7
500			2,775	4	1	5			1,600		200	1,600	8
226			1,711	3		3			906		220	906	9
200			1,520	3		3			900		221	900	10
266			1,553	4	1	5			822		190	822	11
40			1,235	3	1	4			522		180	522	12
120			872	3	1	4			520		160	520	13
150			600	2	1	3			350		150	350	14
65			732	2		2			340		160	340	15
50			550	2		2			250		130	250	16
40			585	2		2			250		250	250	17
40			540	2		2			240		185	240	18
30			555	2		2			240		160	240	19
30			530	2		2			230		173	230	20
30			505	2		2			220		194	220	21
33			489	2		2			213		182	213	22
25			462	2		2			200		150	200	23
35			447	2		2			200		155	200	24
6,522	1,729		\$101,092	144	26	170			32,471	25,996	200	58,467	
2,662	16,848		\$2,789,921	2,628	1,056	3,684	1,277,211	129,597	163,706	202,675		1,773,189	

NOTE.—Price paid for hand mining, shipping mines: From July 1, 1903, to April 1, 1904, \$2; from April 1, 1904, to July 1, 1904, \$0.79.

From July 1, 1903, to April 1, 1904, \$0.64; from April 1, 1904, to July 1, 1904, \$0.81.

Average price paid for the year, \$0.7155 per ton.

Average price paid for hand mining, local mines, for the year, \$0.8893 per ton.

Livingston County—First District—1904

Number.	NAME OF OPERATOR.	Postoffice Address of mine.	OUTPUT OF MINE				
			Total.	Mine run.	Lump.	Egg.	Nut.
SHIPPING MINES.							
1	Cardiff Coal Co. No. 2.....	Cardiff.....	79,174	42,899	18,777	677	285
2	Beggs-Davis & Co., Walton mine	Fairbury.....	24,200	1,500	16,300	.....	2,800
3	Manhattan Coal Co., No. 2.....	Cornell.....	3,282	250	1,882	.....	525
4	Benjamin Davis, No. 2.....	Streator.....	3,195	.....	2,130	.....	.....
5	Brady Coal Co. No. 1.....	Pontiac.....	2,919	2,919	.....	.....	.....
6	A. Anderson & Sons, No. 1.....	Streator.....	1,423	.....	1,066	.....	.....
Totals.....			114,193	47,568	40,155	677	3,620
LOCAL MINES.							
1	Coöperative Coal Co., No. 1.....	Fairbury.....	15,677	.....	7,080	2,527	1,985
2	Streator Clay Mfg. Co. Clay works	Streator.....	10,800	10,800	.....	.....	.....
3	Ed. E. Evans, Evans.....	Streator.....	2,200	.....	1,650	.....	.....
4	Streator Aqueduct Co., No. 1.....	Streator.....	1,825	.....	.....	.....	.....
5	Munts Bros., No. 2.....	Streator.....	1,575	.....	1,044	.....	.....
6	William McMillin, No. 1.....	Streator.....	1,192	.....	880	.....	.....
7	Alex Steel & Co.....	Streator.....	842	114	529	.....	.....
8	John Westerlund.....	Streator.....	768	311	382	.....	.....
9	Massey Bros.....	Streator.....	627	.....	522	.....	.....
10	Harry Wonders.....	Streator.....	450	.....	300	.....	.....
11	Johnson Coöperative Coal Co No 1	Fairbury.....	278	278	.....	.....	.....
Totals.....			36,274	13,328	12,387	2,527	1,985
Totals—17 mines.....			150,467	60,896	52,542	3,204	5,605

Mines in 1903—14.
New Mines—6.
Abandoned Mines—3.
Mines in 1904—17.

Livingston County—First District—Concluded.

TONS.	Slack or waste.	Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
			Average number of miners.	All other employees.	Total	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
526		\$115,574	96	57	153	71,543		4,283	3,848	284	79,174	1
600		88,170	27	10	37	11,570	9,490	1,680	1,460	220	24,200	2
625		7,611	10	8	18	2,782		400	100	100	3,282	3
665		4,899	6	4	10	1,250		1,945		204	3,195	4
		5,838	18	5	23	799		2,000	120	150	2,919	5
357		2,501	4	2	6	393		1,030		160	1,423	6
173		\$172,683	161	96	257	88,337	9,490	11,338	5,028	186	114,193	
785	3,300	\$26,883	12	10	22			12,877	3,300	236	15,677	1
		16,200	13	5	18				10,800	298	10,800	2
530		4,043	3	2	7			2,200		225	2,200	3
		2,135	3	1	4				1,825	300	1,825	4
531		12,458	5	1	6			1,575		165	1,575	5
312		10,004	5	1	6			1,192		195	1,192	6
238		1,463	2	1	3			882		145	882	7
75		1,556	2	1	3			768		185	768	8
105		1,303	3	1	4			627		225	627	9
150		705	2	1	3			450		175	450	10
		556	6	2	8			278		50	278	11
1,747	3,300	\$58,608	58	26	84			20,349	15,925	215	36,274	
1,920	3,300	\$231,291	219	122	341	88,337	9,490	31,687	20,953	...	150,467	

NOTE.—Average price paid for hand mining, shipping mines, for the year, \$0.807 per ton. At Sreator Clay Mfg. Co.'s mine, miners paid by the day \$2.56 from July 1, 1903, to April 1, 1904; \$2.42 from April 1, 1904 to July 1, 1904.
Average price paid for hand mining, local mines, \$0.656 per ton.

Will County—First District—1904.

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE-				
			Total.	Mine run.	Lump.	Egg.	Nut.
SHIPPING MINES.							
1	Murphy, Keenman & Co., Murphy	Braidwood....	30,262	131	19,453	.....	2,727
2	Joliet, Wilmg'n Coal Co. Reliance	Braidwood....	25,000	3,500	3,500	.....	5,490
3	Rixson Coal Co., No. 1.....	Braidwood....	7,834	1,597	2,446	2,279	.....
Totals.....			63,096	5,228	30,498	2,279	8,177
LOCAL MINES.							
1	John O. Connor & Co. No. 2.....	Braidwood....	5,000	.....	3,500	1,000	.....
Totals.....			5,000	.....	3,500	1,000	.....
Totals—4 mines.....			68,096	5,228	33,998	3,279	8,177

Mines in 1903—2.
New mines—2.
Mines in 1904—4.

Will County—First District—Concluded.

Tons.	Slack or waste.	Aggregate value of total product.	EMPLOYEES			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
			Average number of miners.	All other employes.	Total	Tons loaded on cars for shipment	Tons supplied to locomotives at the mine.	Tons sold to local trade	Tons consumed or wasted at the mine.			
557	1,095	\$41,033	80	24	84	23,688	...	5,479	1,095	216	30,282	1
450	...	40,203	80	23	103	21,800	...	2,400	800	195	25,000	2
512	...	13,762	50	35	85	7,334	...	...	...	70	7,834	3
819	1,095	\$94,908	190	82	272	53,322	...	7,879	1,895	306	63,096	
500	...	\$11,375	8	1	9	...	...	5,000	...	150	5,000	1
300	...	\$11,375	8	1	9	...	...	5,000	...	150	5,000	
819	1,095	\$108,373	198	83	281	53,322	...	12,879	1,895	.....	68,096	

NOTE—Average price for hand mining, shipping mines, \$0.939 for the year.
 Price paid for hand mining, local mines, \$1.00 per ton.

Recapitulation by Counties—

COUNTIES.	Number of shipping mines.	PRODUCTION OF DIFFERENT GRADES IN TONS.							Aggregate value of total product
		Total tons produced.	Mine run.	Lump.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Grundy	14	1,378,852	3,779	884,069	113,647	55,085	289,108	31,164	\$1,778.4
Kankakee	1	53,405	2,353	35,687	...	3,832	10,263	1,270	2.16
LaSalle	17	1,714,722	294,474	911,594	126,400	30,995	336,140	15,119	2,682.2
Livingston	6	114,193	47,568	40,155	677	3,620	22,173	.....	12.65
Will	3	63,096	5,228	30,498	2,279	8,177	15,819	1,095	94.92
Totals and averages	41	3,322,268	353,402	1,902,003	243,003	101,709	673,505	48,648	\$4,811.93

Recapitulation by Counties—

COUNTIES.	Number of local mines.	PRODUCTION OF DIFFERENT GRADES IN TONS.							Aggregate value of total product
		Total tons produced.	Mine run	Lump	Egg.	Nut.	Pea or screenings.	Slack or waste	
Grundy	11	28,306	...	25,497	...	...	3,809	...	\$ 63.22
LaSalle	24	58,467	34,208	16,013	...	...	6,522	1,729	105.60
Livingston	11	36,274	13,328	12,387	2,527	1,985	2,747	3,300	54.12
Will	1	5,000	...	3,500	1,000	...	500	...	11.25
Totals and averages	47	128,047	47,531	56,897	3,527	1,985	13,578	5,029	\$245.19
Totals, district—all mines	88	3,450,315	400,933	1,958,400	246,530	103,694	687,081	53,677	\$5,057.12

Whole number of mines reported in 1903, 74.
 Number of new mines opened during the year, 20.
 Number of mines abandoned during the year, 6.
 Whole number of mines reported for 1904, 88.

First District—1904—Shipping Mines.

EMPLOYEES.			DISPOSITION OF OUTPUT				Average number of days in operation.	TONS MINED		PRICES PAID PER TON FOR -		Number of steam boilers.	
Number of miners.	All other employees.	Total	Tons loaded on cars for shipment.	Tons supplied to locomotives at mine.	Tons sold to local trade.	Tons consumed and wasted at mines.		By hand.	By machine.	Hand mining.	Machine mining.	Number of steam boilers.	Number of fans.
2,618	843	3,461	1,287,907	.. ..	25,748	53,197	220	1,376,852	.. ..	\$0.562	.....	47	13
112	82	194	15,068	31,650	1,825	4,853	174	53,406	.....	0.87	.....	3	1
2,454	1,032	3,514	1,277,211	129,597	131,235	176,879	253	1,714,722	.....	0.715	.....	51	15
161	96	257	88,337	9,490	11,338	5,028	187	114,198	..	0.807	.....	11	■
190	82	272	53,322	..	7,879	1,895	206	63,096	..	0.939	.....	8	3
5,565	2,138	7,698	2,731,845	170,748	178,025	241,652	227	3,322,263	.....	\$0.786	..	120	35

First District—1904—Local Mines.

EMPLOYEES.			DISPOSITION OF OUTPUT				Average number of days in operation.	TONS MINED		PRICES PAID PER TON FOR		Number of steam boilers.	
Number of miners.	All other employees.	Total	Tons loaded on cars for shipment.	Tons supplied to locomotives at mine.	Tons sold to local trade.	Tons consumed and wasted at mines.		By hand.	By machine.	Hand mining.	Machine mining.	Number of steam boilers.	Number of fans.
66	12	77	.. ..	..	27,775	531	303	28,306	.. ..	\$1.416	.....	6	2
144	26	170	..	..	32,471	25,996	200	58,467	.....	0.8802	..	7	1
58	26	84	.. ..	..	20,349	15,925	215	36,274	.. ..	0.6551*	..	11	1
8	1	9	.. ..	..	5,000	..	130	5,000	..	1.00	..	1	..
275	65	340	.. ..	..	85,593	42,452	215	128,047	..	\$0.9759	..	25	4
5,840	2,196	8,036	1,731,845	170,748	263,620	284,104	215	3,450,313	...	\$0.7925	..	145	■

* 12,625 tons mined by the day.

SECOND INSPECTION DISTRICT, 1904.

TWENTY-FIRST ANNUAL REPORT.

Counties: Bureau, Henry, Knox, Marshall, Mercer, Rock Island, Warren.

THOMAS HUDSON, *Inspector*, Galva.

HON. DAVID ROSS,
Secretary State Bureau of Labor Statistics, Springfield, Ill.

SIR—In accordance with section 12 of an act of the General Assembly State of Illinois, defining the duties of the state inspectors of coal mines providing for the better preservation of the health and safety of all persons employed therein, I have the honor of submitting herewith, the twenty-first annual report of the coal mines located in the second inspection district comprising the coal producing counties of Bureau, Henry, Knox, Marshall, Mercer, Rock Island, Stark and Warren.

The tables, or tabular information included in this report, contain the following essential information in regard to the number of miners, and other employees underground and on the surface, engaged in the coal mining industry in the second district; the number of mines of both classes, shipping and local; the perpendicular depth of the various shafts and slopes; the thickness and general number of the different seams; the amount of powder and dynamite consumed in blasting coal, also for rock excavations; the number of accidents, fatal and non-fatal; the tons of coal of the various grades that have been produced, with the prices paid for mining and the selling prices of the coal. The averages, ratios and percentages are also given. In fact, all the information necessary, from a calculator's standpoint is contained in the tabular part of the report.

The following summary for the district is presented for the year ending June 30, 1904:

Total number of mines	
Number of shipping mines	
Number of mines in local trade only	
Number of miners employed	
Number of others underground	
Number of boys underground	
Number employed on the surface	
Total number of employes	
Number of kegs of powder consumed—for all purposes	
Tons of lump coal produced	2,499
Tons of all other grades, combined	3,383
Total product in tons of 2,000 pounds	2,753
Tons shipped on cars at mine	11
Tons sold to local consumers	5
Tons used for steam purposes, at mines	
Tons supplied to locomotives, at mines	\$4,981
Aggregate value of the total product	
Average number of days of active operation—shipping mines	
Number of fatal accidents	
Number of non fatal accidents	
Total number of accidents	
Number of employes to each fatal accident	
Number of employes to each non-fatal accident	

Tons of coal produced to each fatal accident.....	474,641
Tons of coal produced to each non-fatal accident.....	24,609
Tons of coal produced to each miner employed	618
Tons of coal produced to each employ�, all classes.....	451
Number of steam boilers in use at the mines.....	142
Number of ventilating fans in use at the mines.....	31
Ratio of fatal accidents per 1,000 persons employed	0.95

A comparative table follows, showing the product in tons of the different coal producing counties in the district, with the increase or decrease in each, for the years ending June 30, 1903 and 1904.

COUNTIES.	TOTAL PRODUCT OF ALL GRADES OF COAL IN TONS.		Increase.	Decrease.
	1903	1904		
Bureau.....	1,778,302	1,832,577	54,275	.....
Henry.....	130,663	151,887	21,224	.....
Knox.....	84,575	89,992	5,417	.....
Marshall.....	465,079	476,239	11,160	.....
Mercer.....	648,070	601,508	.....	46,562
Rock Island.....	85,700	91,793	6,093	.....
Stark.....	39,406	61,040	21,634	.....
Warren.....	13,986	17,454	3,468	.....
Total.....	3,245,781	3,322,490	123,271	46,562
Net increase .....	.....	.....	76,709	.....

The counties of Bureau, Henry, Knox, Marshall, Rock Island, Stark, and Warren, combined, show an increase of 123,271 tons; while Mercer county shows a decrease of 46,562 tons; leaving a net increase for the district, over the year previous, of 76,709 tons.

NEW MINES.

One new mine only of the shipping class has gone into operation during the year; this was shaft No. 4, operated by the Alden Coal company, located near Wanlock, Mercer county. Active operation began Sept. 15, 1903. In the fall of 1903, the Volunteer Coal company sunk a shaft near Coal alley, Rock Island county, and fully expected to get track connections with the C. R. I. & P. R. R., but up to July, 1904, the branch had not been constructed. It may be put in later, however. The output of the mine will always be quite limited.

MINES WORKED OUT AND ABANDONED.

The Atlas Coal company's mine No. 2, located near Galva, Henry county, has been worked out and was abandoned April 1, 1904. Preparations are being made, however, by the same company for the opening of a new shaft near the location of the one abandoned. It is likely that it will be in operation by September, 1904.

SHAFT BUILDINGS BURNED.

Dec. 17, 1903, the tower of the Alden Coal company's mine No. 2, located at Wanlock, Mercer county, was destroyed by fire. The engine and boiler rooms, blacksmith and carpenter shops, fan, fan-house, etc., were saved. The fire broke out on the top landing, about 6 o'clock in the evening, the origin of the fire is unknown; the amount of damage was \$1,800, fully insured. The building of a new tower was begun at once, and active coal hoisting operations commenced Jan. 5, 1904. Several buildings of the local mine, operated by Alfred Lilliman, at Cable, Mercer county, were burned down Dec. 22, 1903. The fire started about 4 o'clock in the morning. It destroyed the gin-ring, boiler house, tower, and about eight feet of the top part of the shaft lining. The fan, fan-house and

escape shaft were uninjured. The fire was probably caused by a spark from the night watchman's lamp, as he went below to look after the pump, as the fire seemed to have started soon afterwards. The tower was rebuilt, and coal again hoisted Jan. 13, 1904. The loss was about \$1,500, uninsured.

About midnight, Nov, 13, 1903, a very distressing fire took place in the mule stables, near the bottom of the No. 2 shaft, operated by the Spring Valley Coal company, at Spring Valley, Bureau county. The origin of the fire is unknown, but as it occurred at the time when the night shift men leave the mine, it is quite possible that it was caused from a spark dropping from some careless miner's lamp, among the loose hay, of which there is generally an abundance scattered around. Seventeen of the largest, best and most costly mules in the mine were burned in this fire. The mine was idle one day only in consequence, but the output was greatly reduced for some time until the mules could be replaced.

ESCAPEMENT SHAFTS.

The following escapement shafts, with the name of the operator, location of the mine, and the depth thereof, in feet, have been sunk during the year:

OPERATOR.	Location.	County.	Depth in feet.
Alden Coal Co.....	Wanlock.....	Mercer.....	140
Galva Coal Co.....	Wataga.....	Knox.....	68
Herdien Coal Co. No. 16	Galva.....	Henry.....	50
Kewanee M. & M. Co.....	Kewanee.....	Henry.....	78
Yates City Coal Co	Yates City.....	Knox.....	*107
Fred Henry	Kewanee.....	Henry.....	52
St. Paul Coal Co.....	Granville.....	Putnam.....	400
Johnson & Herman.....	Kewanee.....	Henry.....	30
Bert Ballentine.....	Wyoming.....	Stark.....	62
Volunteer Coal Co.....	Coal City.....	Rock Island.....	68

* Sunk from No. 5 to No. 2 seam.

IMPROVEMENTS AND FUTURE PROSPECTS.

The most notable improvements that have been made during the year have been in Bureau county. Shaft No. 3 at Spring Valley, and Shaft No. Seatonville, both operated by the Spring Valley Coal Co., have been equipped with magnificent steel towers. At the latter place a new shaft has been sunk, new winding engines and boilers have been installed, and a Cape is in course of erection. Six of the seven large mines in Bureau county are now equipped with steel towers. Five of these mines have in operation the famous Capell fan. This is certainly the best and at the same time, the most expensive ventilator known to the Mining world.

In the annual report for 1903, it was confidently predicted that Putnam would be added to the list of coal producing counties in the second decade for 1904. Owing, however, to bad ground met with in sinking at the St. Paul Coal Co.'s shaft at Granville, this county, that prediction has not been fulfilled. The sinking of the first shaft progressed favorably, until a depth of about 120 feet was reached. At this point, a large layer of sand and a mense flow of water was encountered, and the initial attempt at shaft sinking had to be abandoned. Drilling was then commenced, for the purpose of finding a more favorable location. This was eventually found, and at the present writing both main and escape shafts have pierced the seam.

at a depth of 482 feet, the latter being located on lower ground. Coal was mined at 460 feet; the shafts have been connected underground. The No. 2 of the Illinois section, three feet two inches thick; the coal is of quality as is usual with that seam. The overlying and underlying strata dip very favorably for long-wall mining, which will be the system at this mine. A steel tower is being erected, and it is fully expected that by December 1904 coal hoisting will be fairly commenced.

In addition to the new mine at Granville, Putnam county, the St. Paul Coal Company is shortly adding another first class mine to those already in operation in Putnam county. The company has secured a large tract of coal land, and the construction of the main shaft has already commenced. The new mine is located about five miles north of Ladd, and a new mining town will certainly spring into existence in that locality.

As to the other coal producing counties in the second district, very much more range in the output may be expected; but with Putnam added to the list of producing counties in the district and the improvements intended to increase coal production in the district, also the proposed new mines of the future, in Bureau county, an increase in the output of the second district is to be expected.

FATAL ACCIDENTS.

Following is a detailed statement of the fatal accidents that have taken place in the second inspection district during the year ending June 30, 1904. On June 3, 1903, August Romanisky, miner, aged 47 years, married, was killed by a fall of roof at the switch of his working room, in Spring Valley No. 4, located at Seatonville, Bureau county. The driver had pulled the car from the face of the room in which the deceased was working; while going around the curve at the switch the car struck against the outside building and lodged there; the driver went away and left the car; on examination it was evident that the deceased had been trying to get the car out and that a large mass of roof had suddenly fallen crushing his head, killing him instantly. He leaves a widow and one child in Russia.

On July 1, 1903, Ivy Murdock, miner, aged 29 years, married, was severely injured by powder and bruised by coal flying from a premature blast in Moore Brothers' local mine, located near Coal Valley, Rock Island county. He had charged a drill-hole with loose powder, and was in the act of tamping it to the back of the hole with an iron scraper; it is assumed the scraper struck a piece of sulphur, which generated a spark, igniting the powder and the explosion followed. The heel of the shot was blown off by the explosion, and the coal flying therefrom, struck the deceased bruising him severely on his head and body. He died from the injuries received six days after the accident. Two other miners were in the room, visiting with him at the time of the explosion, one was severely injured and the other one was burned. Deceased leaves a widow and three children.

On July 2, 1904, Charles Westerfield, miner, aged 21 years, single, was killed by being struck on the head and body by coal flying from a premature blast in the Wyoming Coal Co.'s mine, Wyoming, Stark county. The deceased with his brother, were working in a room; they had drilled a hole about five feet in depth and had charged it with powder, and had commenced tamping the blast, they had about two or three inches of tamping on the hole when the explosion took place. A copper needle and copper tipped bar were used in accordance with law, just how this accident could have occurred under the conditions stated at the inquest, is quite difficult to determine. The brother of the deceased was severely injured.

On July 3, 1904, William T. Baines, miner, aged 52 years, married, was killed by a fall of roof at the face of his working place in the mine operated by the Yates City Coal Co., located near Yates City, Knox county. Deceased and his partner were driving the main north entry. A clay slip had been running nearly parallel with the working face, this slip was partially exposed the entire width of the entry, except about five feet on one side. A blast had been fired in the remaining five feet, exposing the slips across the entry. After firing the blast Baines went to work at the

face, the blast having shaken the roof it suddenly fell with the result as stated, also seriously injuring his partner. Deceased leaves a widow and two children.

March 31, 1904, Anton Zolinas, miner, aged 28 years, single, was killed by falling into the sump or cage seat at mine No. 3, operated by the Spring Valley Coal Co., Spring Valley, Bureau county. It is customary at the Spring Valley mines for all miners to be out of the mine at 4:30 p. m. About that time a blacksmith went to the bottom of the shaft to repair a water pipe. Shortly before six o'clock deceased came from the inside workings to the shaft bottom, but could not be hoisted because of repairs being made there. He was advised to go to the escape shaft, about 300 feet from the main shaft, in which there is a good stairway. He left the bottom of the main shaft seemingly for the purpose of going to the escape shaft; this was the last seen of him alive. On the following day he was reported missing from his boarding house. A searching party was organized at once, going into the mine. They failed to find him in his working place; when they returned to the shaft bottom they found his dinner bucket in the north cage seat and his dead body in the south one. It seemed evident that the deceased had returned to the main shaft after the blacksmith had gone and that he had attempted to climb up the buntons, as the marks of his hands and feet could be traced for a distance of about 75 feet up the shaft where, in all probability, he had slipped, falling to the bottom. It may be added that the sump or cage seat is about ten feet deep, as double-decked cages are in use at this mine.

May 23, 1904, Robert Bradbeer, machinist, aged 45 years, married, was killed instantly by being caught in the machinery of the coal washing plant at the Illinois Third Vein Coal company's mine, Ladd, Bureau county. Deceased had charge of the jigging apparatus at the coal washer. By some means, which could not be explained, he got his foot caught in the machinery; his leg was drawn in and crushed up to the groin. The engine was stopped as soon as the alarm was given, but life was extinct before he could be extricated. He leaves a widow and five children.

June 11, 1904, Charles Mazeika, driver, aged 30 years, single, was severely injured in the spine, near the base of the brain, by being crushed under a loaded pit-car in mine No. 3, operated by the Spring Valley Coal Co., Spring Valley, Bureau county. He died from the injuries seven days after the accident. Deceased was employed as a driver in the mine. In passing with a loaded trip through a sheet or canvass put up to control the ventilation, his light was extinguished. He either fell or was knocked from the front of the car on which he was riding, the mule pulling the car onto him.

Two other fatalities have occurred at the coal mines in this district during the year, but owing to the circumstances under which they occurred it is not thought advisable to enter them on the tabular forms, nor charge them up against the mines at which they took place. Yet it seems necessary to mention them in this report. The facts are substantially as follows:

December 24, 1903, Nicholas Alberson, miner, of Princeville, Peoria county, was severely crushed by falling down the shaft, 124 feet, at the Wyoming Coal company's mine, located at Wyoming, Stark county. Deceased came from Princeville to Wyoming on a visit. He was not an employé of the Wyoming Coal company. He went to the mine to visit the engineer and others employed there with whom he was acquainted. He walked to the doors at the ground landing and opening the south door deliberately stepped into the south cage-way and fell to the bottom of the shaft. He was conscious when brought to the surface and stated that he was going into the engine room. He died from the injuries one hour after being brought from the mine.

April 2, 1904, August Wahlgren, company man, aged 64 years, married, died suddenly from natural causes in the Coal Valley Mining company's shaft No. 1, located at Cable, Mercer county. Deceased, with his partner, were engaged laying track and was in the act of drawing a spike with a spike-bar. Leaving the spike-bar he sat down at the side of the entry and died without making any complaint whatever to his partner, who was working near him at the time. Wahlgren had been suffering from heart trouble for some time.

previous, and that was given as the cause of his death. No inquest was held as the attending physician said it was a clear case of heart failure and that a post mortem examination was unnecessary.

Following are the regular and usual tables and schedules for each county in the second inspection district.

Respectfully submitted,

THOMAS HUDSON,
State Inspector of Mines Second District, Galva, Ill.

Fatal Casualties—Second District July 1, 1904.

Date.	NAME.	Age.	Occupation.	Residence (Town.)	Married.	Widow.	Children.	Single.	Dependent.	Cause of accident.
1903.										
Aug. 8	August Romaniski	47	Miner	Seatonville	1	1	1		2	Falling roof...
Oct. 31	Ivy Murdock	29	Miner	Coal Valley.	1	1	3		4	Premature blast.
1904										
Jan. 12	Chas. Westerfield..	21	Miner	Wyoming					1	Premature blast
Mar. 3	Wm. T. Baines	52	Miner.	Yates City	1	1	2		3	Falling roof
31	Anton Zolinas . . .	28	Miner	Spring Vall'y					1	Falling down shaft.
May 23	Robt. Bradbeer. . .	45	Machinist	Ladd, . . .	1	1	5		6	Mch'y of coal washer
June 11	Chas. Mazetka . . .	50	Driver.	Spring Vall'y					1	Loaded pit car..
	Total 7.....				4	4	11		8:15	

Summary of Fatal Accidents—Second District—July 1, 1904.

PLACE.	No.	Occupation.	No.	Nature of casualty.	No.	Colliery.	No.
Alton...	1	Driver.....	1	Caught by mach. of coal washer.....	1	Ill. 3d Vein Coal Co...	1
.....	1	Machinist.....	1	Crushed under loaded pit car.....	1	Moore & Wahlstrom...	1
Alton...	1	Miners.....	5	Falling down shaft.	1	Spring Val. Coal Co...	3
Valley...	2			Falling roof.....	2	Wyoming Coal Co....	1
ing	1			Premature blast.....	2	Yates City Coal Co....	1
City....	1						
Totals.....	7	.....	7	.....	7	.....	7

STATISTIC OF LABOR.

Non-Fatal Casualties—Second District—July 1, 1904.

Date.	NAME.	Age.	Occupation.	Residence. (Town.)	Married.	Single.	Children.	No. persons dependent.	Character of injury and cause of accident.	Time lost— days.
1903.										
July	12 James Sabons	33	Co. man	Spring Valley	1	1	1	5	Head cut, falling roof	90
Aug	8 Fred Mallin.	38	Miner	Wataga	1	1	4	5	Leg broken, falling roof	90
	12 Joseph Schmidt	60	Miner	Ladd	1	1	1	2	Head cut, caught by pit car	45
	13 Joseph Davitt	45	Miner	Etherley	1	1	5	8	Head bruised, premature blast	45
	17 Lars Aageson	40	Miner	Kewanee	1	1	2	3	Body bruised, falling coal	35
	24 John Chemoiski	28	Miner	Spring Valley	1	1	5	3	Foot bruised, falling roof	180
	25 John Cicci	48	Miner	Toluca	1	1	2	4	Leg broken, falling coal	60
	25 A. C. Barr	47	Miner	Viola	1	1	2	3	Eye put out, flying splint of steel	88
Sept.	3 Ed Grimeaux	35	Co. man	Spring Valley	1	1	1	1	Head injured, falling roof	115
	19 Wm Smith	22	Driver	Spring Valley	1	1	4	5	Leg crushed, by pit car	150
	21 George Jones	38	Miner	Sherrard	1	1	1	2	Foot crushed, falling roof	37
	24 N. Casarini	47	Miner	Spring Valley	1	1	5	6	Shoulder bruised, falling coal	108
	26 Dan Sullivan	34	Driver	Seatonville	1	1	4	5	Fingers (3) cut off, by pit car	33
Oct.	5 Jas. Frew	55	Miner	Sherrard	1	1	3	4	Thumb crushed, falling coal	150
	8 Joe Hlozinay	20	Driver	Toluca	1	1	2	4	Ankle broken by pit car	52
	9 John Demonski	54	Miner	Spring Valley	1	1	3	3	Leg bruised, by pit car	50
	13 John Hardy	62	Trapper	Spring Valley	1	1	1	3	Body bruised, by pit car	90
	17 Frank Kofel	23	Top-man	Spring Valley	1	1	1	1	Foot bruised, by tippie	90
	30 Geo Steens	27	Driver	Spring Valley	1	1	1	1	Leg bruised, by pit car	90
Nov.	31 Fred Krapp	28	Miner	Coal Valley	1	1	1	2	Face burned, exploding loose powder	30
	3 Geo. Gliebas	48	Miner	Spring Valley	1	1	1	1	Leg broken, falling coal	100
	3 Mart. Zeabarth	24	Top-man	Spring Valley	1	1	1	1	Foot bruised, by steam run	35
	17 Silvann Charles	34	Miner	Toluca	1	1	6	7	Ribs fractured, falling coal	100
	25 Saul Williams	43	Miner	Spring Valley	1	1	1	1	Ankle bruised, falling coal	100
	25 Dominick Robeo	32	Driver	Yates City	1	1	1	1	Leg broken, by pit car	30
	27 Jos. Massa	38	Miner	Toluca	1	1	1	1	Toes crushed, falling coal	30
	28 John Bradwell	24	Co. man	Kewanee	1	1	1	1	Back crushed, descending cage	32
	3 Peter Vernetil	30	Miner	Toluca	1	1	4	5	Knee bruised, falling coal	40
Dec.	8 Frank Gerardi	28	Miner	Spring Valley	1	1	1	1	Toe broken, falling coal	40
	7 A. Tantagrassi	28	Miner	Toluca	1	1	1	2	Back bruised, falling roof	40
	8 Richard Parks	33	Driver	Sherrard	1	1	1	1	Head bruised, by pit car	30
	9 P. Pasqualia	38	Miner	Ladd	1	1	1	1	Arm bruised, falling roof	40
	10 Piro Gherdino	60	Co. man	Seatonville	1	1	1	2	Toes (3) cut off, falling roof	40
	10 P. B. Salines	41	Miner	Marquette	1	1	1	2	Foot bruised, falling roof	40
	16 Grant McFate	16	Trapper	Wanlock	1	1	1	2	Ankle crushed, falling coal	45
	17 Wm. Matie	16	Trapper	Marquette	1	1	1	1	Leg broken, pit car	125

1904	4 J. Vinatsek	30 Miner	Wenona	3 Ankle crushed, falling roof	2	1	36
Jan.	8 John A. Patton	29 Miner	Wanlock	4 Back bruised, falling roof	3	1	30
	8 A. Tullaki	43 Miner	Spring Valley	6 Arm injured, falling coal	5	1	32
	9 Anton Mussetti	49 Miner	Spring Valley	3 Hand injured, falling coal	2	1	43
	12 M. B. Westfield	24 Miner	Wyoming	Body bruised, falling coal	1	1	40
	14 B. Berico	30 Miner	Marquette	Leg broken, falling roof	1	1	30
	15 James Ryan	21 Driver	Toluca	Toe cut off, pit car	1	1	30
Feb.	15 Robt. Shaw	17 Driver	Spring Valley	Head injured, falling roof	1	1	45
	30 Alex. Zeronke	44 Miner	Spring Valley	1 Back injured, falling coal	2	1	37
	1 John Gumbo	38 Miner	Spring Valley	6 Leg broken, falling roof	1	1	37
	1 Tim. Sheahan	30 Miner	Toluca	Thigh broken, falling coal	1	1	37
	3 Fred Schoening	26 Driver	Sherard	Foot crushed, by pit car	1	1	37
	4 J. A. Rohr	64 Miner	Monmouth	3 Arm injured, falling coal	2	1	33
	6 Peter Gogliatini	28 Miner	Spring Valley	3 Finger broken, falling coal	2	1	33
	13 M. Zigmont	30 Miner	Spring Valley	3 Ribs injured, falling coal	2	1	33
	13 Val. Traccolletto	19 Miner	Dalzell	Leg broken, falling roof	1	1	33
	18 Jos. Cerellone	34 Miner	Toluca	6 Leg broken, falling roof	5	1	33
Mar.	20 Roger Piercy	45 Boiler maker	Spring Valley	6 Hips injured, struck by timber	5	1	40
	20 A. Smock	20 Miner	Wenona	3 Ankle crushed, falling roof	2	1	40
	2 John Troya	20 Driver	Spring Valley	2 Body bruised, falling roof	1	1	40
	3 Jas. Nichols	31 Miner	Yates City	Leg broken, by pit car	1	1	60
	4 Frank Sanlor	23 Co. man	Spring Valley	5 Collar bone broken, falling coal	4	1	100
	7 George Ciacio	36 Miner	Spring Valley	6 Leg broken, falling roof	5	1	50
	13 Geo. Daniel	34 Co. man	Wanlock	6 Leg broken, by pit car	5	1	50
	18 Frank Puckett	50 Top boss	Spring Valley	3 Shoulder injured, falling roof	2	1	40
	18 Paul Janesek	33 Miner	Dalzell	Hand injured, falling roof	1	1	72
	24 G. Monstetelle	25 Miner	Spring Valley	1 Back injured, falling roof	3	1	37
	23 August Streed	37 Miner	Kewanee	4 Foot crushed, falling coal	5	1	34
	25 A. Mazurbrity	28 Driver	Spring Valley	Hand injured, tail chain	1	1	66
Apr.	29 John Jenake	39 Trimmer	Ladd	4 Head bruised, R R car	3	1	70
	3 Myron Scherer	22 Driver	Ladd	Leg broken, by pit car	1	1	43
	6 Owen Barry	25 Miner	Dalzell	2 Finger cut off, falling coal	1	1	34
	6 L. Musarella	47 Miner	Spring Valley	6 Foot crushed, falling coal	5	1	43
	7 Jas. Defillipe	27 Miner	Dalzell	2 Leg broken, falling coal	1	1	34
	9 Chas. Denotto	30 Miner	Spring Valley	Hip bruised, falling coal	1	1	45
	14 C. Goldman	25 Cager	Seatonville	Leg bruised by pit car	1	1	45
	14 J. Zocobowique	22 Co. man	Spring Valley	Hand cut, by tail chain	3	1	30
	16 Louis Smith	33 Miner	Dalzell	4 Toe crushed, falling coal	2	1	45
	26 Louis Gandy	21 Miner	Sparland	Leg broken, falling coal	1	1	45
May	26 Wm. French	28 Miner	Viola	3 Face burned, exploding loose powder	2	1	45
	10 Walter Lockhart	28 Miner	Viola	2 Face burned, exploding loose powder	1	1	45
	10 Jonathan Milner	28 Miner	Dalzell	Back bruised, falling roof	1	1	30
	14 G. Canton	25 Co. man	Marquette	Leg broken, falling timber	1	1	30
	13 A. Shimplus	25 Miner	Spring Valley	1 Leg broken, falling coal	1	1	30
	17 G. Costa						

Compilation of Non-Fatal Accidents—Second District—July 1, 1904.

INJURY.	No.	Occupation.	No.	Cause of accident.	No.	Colliery.	No.
Wiley	1	Boiler maker	1	Cage, descending	1	Alden Coal Co.....	5
y.	10	Cager..	1	Coal flying from		Coal Valley Min. Co.	4
ie	1	Car trimmer	1	premature blast	2	Cook & Rohr's local	
.....	4	Co men....	9	Expl'd'g l'se powdr	3	mine.....	1
tte	4	Drivers.	15	Falling coal.	32	Devlin Coal Co.....	12
oth	5	Miners	63	Falling roof.	29	Etherley Coal Co.....	1
ille	1	Top boss	1	Falling timber.	1	Ill 3d Vein Coal Co.	4
l...	4	Top men.	3	Pit cars; caught by	21	Kewanee Coal Co.	3
d	4	Trappers	2	Railroad car; struck		Kewanee Min & Mfg.	
Valley	2			by.....	1	Co.....	1
...	30			Scantling; struck by	1	G. W. Martins' local	
...	12			Steam ram, struck		mine.....	1
...	3			by.....	1	Marquette 3d Vein	
k	3			Steel, flying from		Coal Co.....	8
...	1			drill head..	1	Moore's local mine...	1
a	2			Tail chain; caught		Spring Valley Cal Co.	49
ng	1			by.....	2	Taylor's local mine.	1
ity	2			Tipple; caught by..	1	Wenona Coal Co.	2
						Wyoming Coal Co..	1
						Yates City Coal Co..	2
als	96		96		96		96

showing List of Non-Fatal Casualties, Nature of Injuries, Time Lost, and Percentages—Second District—July 1, 1904.

NATURE OF INJURIES.	Number.	Married.	Single.	Dependents.	TIME LOST.		Per cent of injuries.
					Total days.	Average days.	
broken.....	2	1	1	3	200	100.00	2.08
injured.....	5	4	1	15	194	64.67	5.20
jured.....	3	2	1	9	147	47.67	3.12
jured.....	3	5	3	10	214	36.66	8.33
jured.....	6	4	2	10	266	53.20	6.25
one broken.....	3	2	1	18	130	65.00	3.12
t.....	1	1	.....	3	60	60.00	1.04
rned.....	3	2	1	5	170	56.67	3.12
broken.....	1	1	.....	3	32	32.00	1.04
cut off.....	2	2	.....	8	146	73.00	2.08
ured.....	11	6	5	24	436	62.30	11.46
njured.....	4	1	3	3	199	59.75	4.17
njured.....	7	4	3	14	381	63.50	7.30
ured.....	2	1	1	6	.....	.....	2.08
ured.....	1	1	.....	5	30	30.00	1.04
oken.....	18	9	9	39	1,040	104.00	18.75
ured.....	6	3	3	15	326	65.20	6.25
ured.....	2	1	1	3	136	68.00	2.08
rs injured.....	2	2	.....	5	77	38.50	2.08
injured.....	1	.....	1	5	33	33.00	1.04
roken.....	1	1	.....	.....	.....	.....	1.04
ken.....	1	.....	1	.....	32	32.00	1.04
off.....	2	1	1	2	175	87.50	2.08
ured.....	4	2	2	6	30	30.00	4.17
als.....	96	56	40	211	4,454	63.63	100.00

Bureau County—Second District—1904.

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE—				
			Total	Mine run.	Lump.	Egg.	Nut.
SHIPPING MINES.							
1	Spring Valley Coal Co., No. 1 ..	Spring Valley	348,000	31,782	261,426		2,792
2	Spring Valley Coal Co., No. 1..	Spring Valley	331,928	16,416	252,365		1,227
3	Spring Valley Coal Co., No. 3...	Spring Valley	266,632	16,832	206,408		1,292
4	Illinois Third Vein Coal Co., No. 1	Ladd	248,464	8,790	197,368		
5	Marquette Third Vein C. Co., No. 1	Marquette	247,142	19,006	179,368	11,664	
6	Spring Valley Coal Co., No. 5 ...	Spring Valley	242,788	1,491	203,277		2,024
7	Spring Valley Coal Co., No. 4	Seatonville	115,178	4,602	85,620		
Totals			1,800,730	96,819	1,397,832	11,664	6,095
LOCAL MINES.							
1	Wm. Brandt	Mineral	6,374		5,958		
2	Edward Donahue ..	Sheffield	4,322		3,602		
3	Wm. Masters & Son ..	Sheffield ..	4,114		4,114		
4	Jas. Kimmerling ...	Sheffield ..	2,980		2,780		
5	Wm. Smith & Sons ..	Princeton ..	2,958		2,958		
6	Thos. Herrington ..	Princeton ..	2,410		2,410		
7	Strand & Norien ..	Sheffield ..	1,896		1,896		
8	John V. Duncan ..	Sheffield ..	1,720		1,600		
9	Nelson & Scott ..	Sheffield ..	1,666		1,666		
10	A. W. Walton ..	Princeton ..	1,082		1,082		
11	C. W. Riley ..	Sheffield ..	875		875		
12	George Heathcock ..	Princeton ..	840		840		
13	Matt Duncan ..	Sheffield ..	248		248		
14	Tiskilwa Coal Co.	Tiskilwa ..	212		212		
15	J. B. Driscoll ..	Tiskilwa ..	120		120		
16	Chas. Gotheridge ..	Sheffield ..	80		80		
Totals			31,847		30,391		
Totals—23 mines			1,832,577	96,819	1,428,223	11,664	6,095

Mines in 1903, 20.

New mines, 3.

Mines in 1904, 23.

Bureau County—Second District—Concluded.

NS.	Slack or waste.	Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
			Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
12, 114		\$497,617	550	200	750	311,414		19,668	17,518	257	348,600	1
1, 862		478,132	567	223	790	300,838	17,534		13,506	257	331,926	2
		384,794	581	162	743	258,024			8,608	213	256,812	3
		356,033	430	139	569	230,468	2,100	10,328	5,570	268	248,464	4
		408,822	400	115	515	231,714		3,126	12,332	245	247,142	5
5, 158		351,486	352	116	468	236,000		1,538	5,250	287	242,788	6
		159,806	270	224	494	101,022		4,502	9,654	242	115,178	7
19, 134		\$2,631,660	3,150	1,179	4,329	1,669,528	19,634	39,162	72,406	254	1,800,730	
		\$10,635	12	3	15			6,174	230	240	6,574	1
		5,763	10	3	13			4,322		205	4,322	2
		7,199	12	2	14			4,114		150	4,114	3
		4,270	6	2	8			2,780	200	250	2,980	4
		5,916	6	1	7			2,938		190	2,938	5
		4,820	6	1	7			2,410		200	2,410	6
		3,792	5	1	6			1,896		200	1,896	7
		3,320	5	1	6			1,720		200	1,720	8
		2,916	5	1	6			1,668		250	1,668	9
		2,064	4	1	5			1,032		150	1,032	10
		1,512	4	1	5			800	75	125	875	11
		1,680	3	1	4			840		100	840	12
		496	3	1	4			248		70	248	13
		434	2	1	3			212		123	212	14
		240	3		3			120		65	120	15
.....		120	1	1	2			80		60	80	16
...		\$54,967	87	21	108			31,872	475		31,847	
19, 134		\$2,686,657	3,237	1,200	4,437	1,669,528	19,634	70,534	72,883	.....	1,832,577	

NOTE.—Price paid for hand mining, shipping mines: From July 1, 1903, to April 1, 1904, \$0.79.
 Average price for year, \$0.8125 per ton.
 Average price paid for hand mining, local mines, for the year, \$0.927 per ton.

Henry County—Second District—1904.

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE—				
			Total.	Mine run.	Lump.	Egg.	Nut.
SHIPPING MINES.							
1	Kewanee Coal & Min. Co., No. 1	Kewanee	56,290	.....	36,590	.....	.....
2	Atlas Coal Co., No. 1	Galva	11,989	.....	11,589	.....	200
3	Briar Bluff Coal Co.....	Briar Bluff	2,480	.....	1,840	.....	.....
Totals			70,759	.....	50,019	.....	200
LOCAL MINES.							
1	Kewanee Mining & Mfg. Co.....	Kewanee	15,000	.....	9,000	.....	1,500
2	Kewanee Coöperative Coal Co...	Kewanee	11,702	.....	10,972	.....	.....
3	Herdien Coal Co., No. 15.....	Galva	8,500	.....	8,000	.....	.....
4	Herdien Coal Co., No. 16.....	Galva	7,780	.....	7,180	.....	.....
5	Emil Ahlgren.....	Kewanee	5,000	.....	4,300	.....	.....
6	Bates Bros	Kewanee	3,480	.....	3,280	.....	.....
7	Fred. Henry.....	Kewanee	3,400	.....	3,200	.....	.....
8	William G. Kay.....	Atkinson.....	3,280	.....	2,800	.....	.....
9	James Fairlie.....	Cambridge	3,232	.....	2,154	.....	300
10	Dixon & Martin.....	Kewanee	2,880	.....	2,880	.....	.....
11	Matt. Atkinson.....	Kewanee	2,414	.....	2,414	.....	.....
12	Ben. Price	Kewanee	2,120	.....	2,120	.....	.....
13	Ab. Hodgett.....	Kewanee	2,048	.....	2,048	.....	.....
14	John Herman & Co.....	Kewanee	2,040	.....	1,488	.....	.....
15	Hartman & Bocroft.....	Atkinson	1,774	.....	1,448	.....	.....
16	Ed Wells.....	Briar Bluff	1,600	.....	1,200	.....	.....
17	Robert Kay.....	Briar Bluff	1,040	.....	1,040	.....	.....
18	Wm. Lamb.....	Kewanee	800	.....	800	.....	.....
19	North Main Coal Co.....	Kewanee	880	.....	640	.....	.....
20	James Waine.....	Atkinson	440	.....	400	.....	.....
21	Leo Maloen.....	Kewanee	400	.....	400	.....	.....
22	R. E. Maloen.....	Kewanee	384	.....	384	.....	.....
23	Joseph Carter.....	Kewanee	374	.....	374	.....	.....
24	John Summerson.....	Coal Valley..	320	.....	320	.....	.....
25	Richard Golden	Kewanee	120	.....	120	.....	.....
26	G. I. Wilson.....	Kewanee	120	.....	120	.....	.....
Totals			81,128	.....	68,982	.....	1,800
Totals—29 mines.....			151,887	.....	119,001	.....	2,000

Mines in 1903, 31.
 New mines, 4.
 Abandoned mines, 6.
 Mines in 1904, 29.

Henry County—Second District—Concluded.

IN TONS.		Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
Pea or screenings.	Slack or waste.		Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
19,700		\$78,819	83	21	103	43,000		9,490	1,800	288	56,290	1
300		20,413	13	5	30	10,079		1,510	400	300	11,989	2
640		4,224	7	2	9	2,458		22		180	2,480	3
20,540		\$97,958	114	28	142	57,537		11,022	2,200	213	70,759	
4,500		\$23,850	14	3	19			14,500	500	235	15,000	1
730		22,309	14	3	17			11,402	300	275	11,702	2
500		15,850	21	3	24			8,000	500	290	8,500	3
600		13,942	25	4	29			7,480	300	200	7,780	4
800		9,000	10	2	12			5,000		250	5,000	5
300		6,660	8	1	9			3,280	200	225	3,480	6
200		6,500	9	1	10			3,200	200	200	3,400	7
480		7,240	7	2	9			3,080	250	200	3,280	8
718		6,643	10	3	13			2,982	250	225	3,232	9
		4,760	6	1	7			2,880		204	2,880	10
		4,838	7	1	8			2,414		240	2,414	11
		4,240	6	1	7			2,120		180	2,120	12
		4,098	6	1	7			2,048		155	2,048	13
552		3,890	6	1	7			2,040		203	2,040	14
326		3,783	6	2	8			1,574	200	300	1,774	15
400		2,700	5	1	6			1,600		150	1,600	16
		2,060	5		5			1,040		170	1,040	17
		1,600	4	1	5			800		100	800	18
240		1,400	3	1	4			680	200	140	880	19
40		820	4	1	5			440		120	440	20
		800	2		2			400		120	400	21
		768	2		2			384		180	384	22
		748	2		2			374		100	374	23
		480	2		2			320		100	320	24
		240	2		2			120		50	120	25
		240	2		2			120		50	120	26
10,286		\$149,967	188	35	223			78,228	2,900	185	81,128	
30,826		\$247,925	302	63	365	57,537		89,250	5,100		151,887	

NOTE.—Average price paid for hand mining for year, shipping mines, \$0.756 per ton.
Average price paid for hand mining, local mines for year, \$1.05 per ton.

Knox County—Second District—1904.

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE—				
			Total.	Mine Run.	Lump.	Egg.	Nut.
SHIPPING MINES.							
1	Etherley Coal Co., No. 3	Etherley.	23,080	13,252	6,068		
2	Yates City Coal Co., No. 1.	Yates City	20,000		15,000		
Totals.			43,080	13,252	21,068		
LOCAL MINES.							
1	George W. Essex.	Galesburg	5,800		5,500		
2	Galva Coal Co	Wataga..	5,750		5,000		
3	Pendergast Bros	Galesburg	5,012		4,652		
4	Rodel & Mitchell	Wataga..	4,888		3,888		
5	George Clifford	Altona	2,920		2,920		
6	Chas. Simpson	Wataga..	1,934		1,934		
7	John Somberger & Bro	Victoria	1,600		1,600		
8	Hamilton Taylor.	Wataga..	1,600		1,600		
9	Terence McGovern	Oneida	1,600		1,600		
10	Bowman Bros.	Yates City	1,518		1,084		313
11	S. D. McGovern.	Oneida.	1,450		1,450		
12	Albert Wahlburg..	Knoxville	1,200		1,200		
13	Nels. Nelson.	Victoria	1,074		1,074		
14	Armstrong & Robinson.	Victoria	980		980		
15	Lundeen & Nelson	Knoxville	866		866		
16	George Lane	Knoxville	860		860		
17	Nelson Kennedy	DeLong	720		720		
18	Louis Nodine & Son	Wataga..	553		552		
19	John Todd	Victoria	520		520		
20	Chas. Morgan.	Oneida	500		500		
21	Charnock & Herkstrom	Victoria	480		480		
22	Gus. Dalton.	Yates City	480		320		
23	James Nelson.	Knoxville	446		446		
24	Eric Strum	Victoria	416		416		
25	Chas. Tell	Abingdon.	400		400		
26	E. C. DeWolfe.	Victoria	380		360		
27	N. C. Anderson.	Knoxville	328		270		
28	Leroy Lomax.	Abingdon	320		320		
29	Miles B. Sloan.	Etherley	320		320		
30	H. E. Bonney.	Abingdon	240		240		
31	William Sleep	Victoria.	234		234		
32	Wm. Nelson	Victoria	200		200		
33	Charles Cross	Abingdon	200		200		
34	Oscar Nelson.	Wataga.	180		180		
35	Frank Brown	Knoxville	160		160		
36	Abel Dewitt.	Abingdon	160		160		
37	Wm. Welker	Farmington	140		140		
38	C. J. Carlson	Victoria	120		120		
39	Eric. Herkstrom	Victoria	120		120		
40	John Cook	Victoria	120		120		
41	A. J. Ernst	Abingdon	80		80		
42	Calkins Bros	Wataga..	48		48		
43	N. A. Anderson	Wataga..	40		40		
44	George Arie.	Victoria	40		40		
Totals.			46,912		44,404		
Totals—45 mines			89,992	13,252	65,472		

Mines in 1903, 41.
 New mines, 10.
 Abandoned mines, 5.
 Mines in 1904, 46.

Knox County—Second District—Concluded.

IN TONS.		Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
Pea or Screenings.	Slack or waste.		Average number of miners.	All other employees.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
3,760		\$26,884	34	10	44	22,184	876	40		214	23,080	1
5,000		25,000	35	7	42	16,000		3,000	1,000	200	20,000	2
3,760		\$51,884	69	17	86	38,184	876	3,040	1,000	207	43,080	
300		\$11,800	14	3	17			5,500	300	240	5,800	1
150		9,838	19	3	22			5,600	150	190	5,750	2
300		9,364	16	3	18			4,652	300	150	5,012	3
1,000		7,269	10	4	14			4,668	200	245	4,868	4
		5,840	8	2	10			2,920		150	2,920	5
		2,901	5	1	6			1,634		186	1,934	6
		2,800	6	1	7			1,600		200	1,800	7
		2,400	5		5			1,600		250	1,800	8
		2,400	5	1	6			1,600		125	1,600	9
170		2,465	4	1	5			1,366	150	170	1,516	10
		2,537	5	1	6			1,450		200	1,450	11
		2,400	5	1	6			1,200		200	1,200	12
		1,890	4	1	5			1,074		180	1,074	13
		1,680	4	1	5			960		160	960	14
		1,732	4	1	5			866		200	866	15
		1,720	5		5			860		140	860	16
		1,440	6		6			720		120	720	17
		828	4		4			552		100	552	18
		910	2		2			520		140	520	19
		750	2		2			500		120	500	20
		730	2		2			480		135	480	21
180		720	3	1	4			330	150	170	480	22
		892	2	2	3			446		150	446	23
		624	2		2			416		130	416	24
		800	3		3			400		120	400	25
		630	2	1	3			360		120	360	26
50		568	3		3			326		180	326	27
		640	3		3			320		160	320	28
		580	4		4			320		80	320	29
		540	3		3			240		90	240	30
		409	3		3			234		60	234	31
		300	2		2			200		100	200	32
		400	2		2			200		120	200	33
		240	2	1	3			160		100	160	34
		320	1		1			160		120	160	35
		320	2		2			160		120	160	36
		210	1		1			140		87	140	37
		210	1		1			120		80	120	38
		180	1		1			120		120	120	39
		130	1		1			120		60	120	40
		100	1		1			80		80	80	41
		72	1		1			48		35	48	42
		60	1		1			40		30	40	43
		60	1		1			40		30	40	44
1,196		\$32,290	122	23	145			45,602	1,310	163	46,912	
10,950		\$124,143	261	45	306	38,184	876	48,642	2,310		89,992	

NOTE.—Price paid for hand mining, shipping mines, Etherley Coal Co.: From July 1, 1903, to April 1, 1904, \$0.27; April 1, 1904, to July 1, 1904, \$0.58. Yates City Coal Co.: \$0.58, average price for hand mining, local mines, for year, \$1.556 per ton.

Marshall County—Second District—1904.

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE—				
			Total.	Mine run.	Lump.	Egg.	Nut.
SHIPPING MINES.							
1	Devlin Coal Co., No. 1.....	Toluca.....	339,239	99,775	179,598	.....	.....
2	Wenona Coal Co., No.1.....	Wenona.....	121,105	.....	90,631	.....	5,626
3	Marquette 3rd Vein Coal Co.....	Sparland.....	9,859	272	8,381	.....	.....
Totals.....			470,203	100,047	278,610	.....	5,626
LOCAL MINES.							
1	Frank Barr.....	Sparland.....	3,000	.....	3,000	.....	.....
2	R. G. Ingram.....	Sparland.....	660	.....	660	.....	.....
3	William Bough.....	Henry.....	584	.....	584	.....	.....
4	W. E. Frisbey.....	Sparland.....	556	.....	556	.....	.....
5	John Myers.....	Sparland.....	480	.....	480	.....	.....
6	William Lopeman.....	Henry.....	320	.....	320	.....	.....
7	Bernard Lanning.....	Sparland.....	180	.....	180	.....	.....
8	Louis Nighswonger.....	Sparland.....	160	.....	160	.....	.....
9	Wm. Horrocks & Sons.....	Henry.....	96	.....	96	.....	.....
Totals.....			6,036	.....	6,036	.....	.....
Totals—12 mines.....			476,239	100,047	284,646	.....	5,626

Mines in 1903—15.
Abandoned mines—3.
Mines in 1904—12.

Marshall County—Second District—Concluded.

No.	Slack or waste.	Aggregate value of total product.	EMPLOYEES.		DISPOSITION OF OUTPUT.						Days of active operation.	Tons mined by hand.	Number.
			Average number of miners.	All other employes.	Total	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Total consumed or wasted at the mine.				
1	18,885	\$501,517	485	144	629	283,344	30,718	6,282	18,895	267	339,239	1	
2	..	228,129	175	89	264	105,705	..	10,600	4,800	257	121,105	2	
3	..	16,570	28	14	42	7,019	..	2,022	818	217	9,859	3	
4	18,885	\$744,215	688	247	935	396,068	30,718	18,904	24,513	247	470,208	4	
5	..	83,250	6	..	6	..	..	3,000	..	240	3,000	5
6	..	990	3	..	3	..	..	600	..	140	600	6
7	..	1,022	3	..	3	..	..	584	..	125	584	7
8	..	834	3	..	3	..	..	556	..	140	556	8
9	..	720	2	..	2	..	..	480	..	150	480	9
10	..	560	2	..	2	..	..	320	..	120	320	10
11	..	270	1	..	1	..	..	180	..	150	180	11
12	..	240	1	..	1	..	..	160	..	108	160	12
13	..	168	2	..	2	..	..	96	..	36	96	13
14	..	\$10,054	23	..	23	..	..	6,036	..	146	6,036	14
15	18,895	\$754,270	711	247	958	396,068	30,718	24,940	24,513	..	476,239	15	

NOTE—Price paid for hand mining, shipping mines, from July 1, 1903, to April 1, 1904, from April 1, 1904 to July 1, 1904, \$0.79. Average price for year \$0.8125 per ton.
Average price paid for hand mining, local mines, \$0.99 per ton.

Mercer County—Second District—1904.

Number

OUTPUT OF MINES.

NAME OF OPERATOR.

Postoffice
Address
of Mine.

Total

Mine run.

Lamp.

Egg.

Net

SHIPPING MINES.

1	Empire Coal Co., No. 3.....	Gilchrist	191,900	10,378	115,910	1.3
2	Coal Valley Mining Co., No. 2..	Sherrard	151,208	1,868	101,226	1.3
3	Alden Coal Co., No. 2	Wanlock	110,554	12,034	61,507	1.3
4	Coal Valley Mining Co., No. 1..	Cable	70,853	816	47,543	1.3
5	Alden Coal Co., No. 4	Wanlock	44,600		26,079	
6	Alfred Lilliman	Cable	6,820		5,820	
7	Arthur Jones	Boden	4,800		4,800	
8	B. B. Peterson	Cable	4,000		4,000	
	Totals		584,220	24,596	365,880	12.1

LOCAL MINES.

1	Docherty Bros	Boden	4,100		4,000	
2	G. W. Martin	Laoc	3,040		2,800	
3	Wm. J. Penman	Boden	3,000		3,000	
4	Alfred Williams	Boden	1,800		1,800	
5	J. B. Martin	Laoc	1,800		1,600	
6	S. J. Young	Griffin	1,600		1,600	
7	W. P. Williams	Laoc	1,400		1,400	
8	M. A. Beers	Cable	738		738	
	Totals		17,278		16,938	
	Totals—18 mines		601,506	24,596	382,818	12.1

Mines in 1903, 16
 New mines, 2.
 Abandoned mines, 2.
 Mines in 1904, 16.

Mercer County—Second District—Concluded.

No.	Slack or waste.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
		Aggregate value of total product.	Average number of miners	All other employes.	Total	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine	Tons sold to local trade.			
	3,104	3248,674	180	93	273	185,825	..	2,565	8,500	240	191,900 1
	44,908	230,900	115	114	229	141,775	62	3,175	6,192	241	151,203 2
	5,476	139,985	94	57	151	102,062	841	2,176	5,475	255	110,554 3
	14,090	110,127	52	42	94	67,865	230	..	2,755	232	70,853 4
	1,920	54,478	78	38	114	42,680	..	..	1,920	167	44,600 5
		10,485	10	3	13	4,800	..	1,170	350	200	6,320 6
		7,200	7	3	10	700	..	3,900	200	240	4,800 7
		5,400	6	2	8	3,480	..	320	200	240	4,000 8
	69,432	802,129	540	352	892	549,196	1,133	13,305	20,595	227	584,290
		36,075	9	3	12	..	..	4,080	70	200	4,100 1
		4,320	5	2	7	..	..	3,040	..	180	3,040 2
		5,250	4	1	5	..	..	2,900	100	140	3,000 3
		2,700	4	1	5	..	..	1,800	..	220	1,800 4
		2,400	5	1	6	..	..	1,600	..	175	1,600 5
		3,240	5	1	6	..	..	1,600	..	270	1,600 6
		2,100	4	1	5	..	..	1,400	..	170	1,400 7
		1,226	4	..	4	..	..	738	..	140	738 8
		527,271	40	10	50	..	..	17,108	170	199	17,278
	69,432	829,400	580	362	942	549,196	1,133	30,414	20,765	.....	601,508

NOTE.—Price paid for hand mining, shipping mines: From July 1, 1903, to April 1, 1904, from April 1, 1904, to July 1, 1904, \$0 63. Average price for the year, \$0 6525 per ton. Average price paid for hand mining, local mines, for year, \$0 902 per ton.

Rock Island County—Second District—1904.

Number	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE.				
			Total	Mine run.	Lump.	Egg.	Nut
SHIPPING MINES.							
1	Silvis Mining Co., No. 2....	Carbon Cliff.	23,886	.....	15,823		
2	Volunteer Coal Co.....	Coal Valley.	2,582	.....	2,232		
3	Moore & Mahlstrom	Coal Valley	2,270	.....	1,870		
	Totals..		28,738		19,427		
LOCAL MINES.							
1	J. J. Pryce & Son....	Coal Valley.	30,090	.....	22,293		
2	Sackville Bros	Coal Valley.	18,800	120	12,065		
3	John Hynd & Sons.	Moline	9,270	.....	8,240		
4	Loding Bros	Moline	2,255	.....	1,804		
5	Stone Bros	Carbon Cliff	800	.....	800		
6	Guckert Bros....	Hampton.	524	.....	524		
7	Fred Vonach....	Carbon Cliff..	400	.....	400		
8	Porterville Coal Co.	Moline	200	.....	200		
9	D. L. Edwards	Coal Valley.	240	.....	240		
10	Grothe Bros	Moline	216	.....	216		
11	Wm. Wooley	Coal Valley.	200	.....	200		
	Totals		63,055	120	47,602		
	Totals 14 mines.....		91,793	120	67,029		

Mines in 1903, 17.

New mines, 2.

Abandoned mines, 5.

Mines in 1904, 14.

Rock Island County—Second District—Continued.

No.	Slack or waste.	Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
			Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
		\$32,846	31	11	42	22,741		300	875	266	23,636	1
		4,354	3	3	6	1,786		546	200	200	2,532	2
		2,780	4	12	16	680		1,884	206	178	2,270	3
		\$40,980	41	16	57	25,227		2,290	1,281	215	28,738	
		\$47,705	20	10	30			29,740	350	280	30,090	1
		26,979	20	7	27			18,685	115	200	18,800	2
		16,998	15	6	21			8,970	300	210	9,270	3
		3,834	5	1	6			2,075	180	200	2,255	4
		1,800	2	1	3			800		175	800	5
		917	3		3			524		91	524	6
		800	2		2			400		125	400	7
		430	4	1	5			200	60	50	280	8
		430	2		2			240		180	240	9
		432	2		2			216		70	216	10
		400	1		1			200		120	200	11
		\$100,572	76	26	102			62,050	1,005	186	63,055	
		\$141,562	117	42	159	25,227		64,280	2,286		91,798	

NOTE.—Average price paid for hand mining shipping mines for the year, \$0.663 per ton; the price paid for hand mining local mines, \$0.673 per ton.

Stark County—Second District—1904.

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE-				
			Total.	Mine run.	Lump.	Egg.	Nut.
SHIPPING MINES.							
1	Wyoming Coal Co., No. 1.....	Wyoming	29,638	8,420	13,238	.....	2,000
2	Watson & Higbie	Wyoming	8,658	3,066	4,000	.....	.....
	Totals.....	.....	38,316	11,486	7,238	.....	2,000
LOCAL MINES.							
1	S. French	Bradford.....	3,060	.....	2,280	.....	.....
2	W. B. Ballentine.....	Toulon.....	2,840	.....	2,400	.....	.....
3	J. M. Robinson	Elmira	2,800	.....	2,440	.....	.....
4	John Scott.....	Wyoming	2,280	.....	2,240	.....	.....
5	Jesse Savill.....	Wyoming	1,904	.....	1,904	.....	.....
6	Ben Smith.....	Wyoming	1,880	.....	1,880	.....	.....
7	John Catton.....	West Jersey..	1,772	.....	1,772	.....	.....
8	B. F. Newton.....	Bradford	1,636	.....	1,456	.....	.....
9	James Higbie.....	Wyoming	1,536	.....	1,280	.....	.....
10	Isaac King.....	Wyoming	920	.....	920	.....	.....
11	James K. Fuller..	Wyoming	880	.....	880	.....	.....
12	Cahill & Code.....	Lombardville.	840	.....	840	.....	.....
13	John Thurston.....	Wyoming	240	.....	240	.....	.....
14	Bever Bros.....	Wyoming	136	.....	136	.....	.....
	Totals.....	.....	22,724	.....	20,648	.....	.....
	Totals—16 mines.....	.....	61,040	11,486	37,886	.....	2,000

Mines in 1903—22.
Abandoned mines—6.
Mines in 1904—16.

Stark County—Second District—Concluded.

Slack or waste.	Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
		Average number of miners.	All other employees.	Total.	Tons loaded on for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
...	\$37,212	40	7	47	27,000	...	2,000	858	240	28,658	1
...	11,029	15	5	20	5,300	...	3,080	292	200	8,658	2
...	\$48,241	55	12	67	32,300	...	5,086	950	220	38,316	
...	35,320	8	1	7	...	...	3,080	...	200	3,080	1
...	4,420	8	1	7	...	...	2,840	...	250	2,840	2
...	5,240	8	1	7	...	...	2,600	300	280	2,600	3
...	3,940	5	1	6	...	...	2,220	80	240	2,280	4
...	3,382	4	...	4	...	...	1,904	...	200	1,904	5
...	3,320	6	...	6	...	...	1,880	...	150	1,880	6
...	3,544	4	...	4	...	...	1,772	...	287	1,772	7
...	3,082	4	1	5	...	...	1,636	...	230	1,636	8
...	2,968	6	1	7	...	...	1,560	36	160	1,536	9
...	1,840	3	1	4	...	...	920	...	160	920	10
...	1,320	3	...	3	...	...	880	...	105	880	11
...	1,880	3	1	4	...	...	840	...	180	840	12
...	420	2	1	3	...	...	240	...	100	240	13
...	272	2	1	3	...	...	136	...	50	136	14
...	\$40,288	60	10	70	...	...	22,428	296	196	22,724	
...	\$88,529	115	22	137	32,300	...	27,494	1,246	...	61,040	

CB—Price paid for hand mining, shipping mines, \$0.75 per ton.

Average price paid for hand mining, local mines, \$1.00 per ton.

Warren County—Second District—1904.

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE-				
			Total.	Mine run.	Lump.	Egg.	Nut.
LOCAL MINES.							
1	Cook & Rohr	Gerlaw	6,322	.....	6,202	.....	.....
2	Gilmore & McKahan.....	Gerlaw.....	4,040	.....	3,240	.....	.....
3	Murphy & Redmond.....	Monmouth	1,500	.....	1,600	.....	.....
4	John Selkirk	Monmouth	944	.....	944	.....	.....
5	John Simcox	Gerlaw.....	800	.....	800	.....	.....
6	Thos. Caldwell	Avon.....	680	.....	680	.....	.....
7	Paul & Slater	Avon.....	600	.....	600	.....	.....
8	J. E. Lewis	Roseville.....	600	.....	600	.....	.....
9	Willis Clayton.....	Avon.....	448	.....	448	.....	.....
10	Tracey & Miller.....	Youngstown..	360	.....	360	.....	.....
11	T. E. Delaney	Avon.....	280	.....	280	.....	.....
12	Thos. Lee.....	Youngstown..	280	.....	280	.....	.....
13	Thos. A. Welch	Monmouth	200	.....	200	.....	.....
14	Bird Liewrance.....	Roseville	200	.....	200	.....	.....
15	Max Cohen.....	Monmouth	100	.....	100	.....	.....
Totals			17,454	.....	16,534	.....	.....

Mines in 1903, 19.
New mines, 2.
Abandoned mines, 6.
Mines in 1904, 15.

Warren County—Second District—Concluded.

Tons.	Slack or waste.	Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
			Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
120		\$10,914	8	2	10			8,122	200	228	8,322	1
800		8,070	8	2	8			3,840	200	220	4,040	2
		4,000	8	2	10			1,600		200	1,600	3
		12,360	8	2	10			944		220	944	4
		1,400	8	2	10			800		185	800	5
		1,700	8	2	10			680		180	680	6
		1,500	8	2	10			600		200	600	7
		1,500	8	2	10			600		100	600	8
		1,120	8	2	10			448		150	448	9
		900	8	2	10			360		230	360	10
		700	8	2	10			280		80	280	11
		700	8	2	10			280		140	280	12
		400	8	2	10			200		200	200	13
		600	8	2	10			200		150	200	14
		175	8	2	10			100		50	100	15
920		\$34,039	60	8	68			17,034	400	185	17,454	

NOTE—Average price paid for hand mining, local mines, \$3.14 per ton.

Recapitulation by Counties—

COUNTIES.	Number of shipping mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Bureau	7	1,800,730	96,819	1,397,832	11,664	6,076	287,205	19,134	\$2,681.00
Henry.....	3	70,759	.....	50,019	.....	200	20,540	.....	97.96
Knox	2	43,060	18,252	17,000	.....	.....	8,760	.....	31.81
Marshall.....	3	470,208	100,047	278,610	.....	5,626	67,025	18,895	744.21
Mercer	8	584,230	24,596	40,000	.....	12,102	111,210	69,432	802.11
Rock Island	8	28,738	.....	19,427	.....	.....	9,311	.....	40.90
Stark.....	2	33,316	11,486	17,238	.....	2,000	7,592	.....	48.24
Totals and averages	28	3,036,056	248,200	2,151,084	11,664	26,004	491,645	107,461	\$4,417.00

Recapitulation by Counties—

COUNTIES.	Number of local mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Bureau	16	31,847	.....	30,391	.....	.....	1,456	.....	\$ 51.95
Henry.....	26	81,100	.....	68,982	.....	1,800	10,298	.....	148.97
Knox	44	46,912	.....	44,404	.....	312	2,196	.....	82.26
Marshall	9	6,036	.....	6,036	.....	.....	.....	.....	10.64
Mercer	8	17,278	.....	16,938	.....	.....	340	.....	27.70
Rock Island	11	63,055	120	47,602	.....	.....	13,333	.....	100.32
Stark	14	22,724	.....	20,648	.....	.....	2,076	.....	48.80
Warren	11	11,454	.....	16,534	.....	.....	920	.....	34.00
Totals and averages	111	286,434	120	251,535	.....	2,172	32,607	.....	\$399.67
Totals, district—all mines.....	171	3,322,490	248,320	2,402,619	11,664	28,176	524,250	107,461	\$4,946.67

nd District—1904—Shipping Mines.

EMPLOYEES.		DISPOSITION OF OUTPUT.					TONS MINED.		PRICES PAID PER TON FOR—		Number of steam boilers.	
All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mines.	Tons sold to local trade.	Tons consumed and wasted at mines.	Average number of days in operation.	By hand.	By machines.	Hand mining.	Machine mining.	Number of steam boilers.	Number of fans.
1,179	4,329	1,669,536	19,634	39,162	72,408	254	1,800,730	.....	90.812	....	48	7
28	142	■,537	.....	11,022	2,200	215	70,759	.....	0.756	....	4	2
17	84	38,164	878	2,040	1,000	207	43, ■	..	0.642	.....	3	1
247	935	396,068	30,716	18,904	24,513	247	470,303	.....	0.812	....	19	3
352	892	549,196	1,133	13,306	20,596	227	584,230	.....	■.652	....	27	7
16	57	25,227	.	2,230	1,281	215	28,738	.....	0.663	.....	4	1
12	67	32,300	.....	5,066	950	220	38,316	..	0.75	.....	2	2
1,851	6,508	2,768,018	52,361	92,730	122,947	291	3,036,066	..	90.776	.....	107	23

nd District—1904—Local Mines.

EMPLOYEES.		DISPOSITION OF OUTPUT.					TONS MINED.		PRICES PAID PER TON FOR—		Number of steam boilers.	
All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mines.	Tons sold to local trade.	Tons consumed and wasted at mines.	Average number of days in operation.	By hand.	By machines.	Hand mining.	Machine mining.	Number of steam boilers.	Number of fans.
21	108	.	.	31,372	475	183	31,847	..	30.927	....	4	..
35	223	.....	.	78,228	2,900	185	81,128	.	1.05	....	11	4
28	210	..	..	45,602	1,310	103	46,912	..	1.056	....	7	1
	23	..	..	6,036	.	146	6,036	.	0.99	.....	1	.
10	50	.	.	17,106	170	199	17,278	...	0.902	..	6	..
26	102	...	.	62,050	1,005	186	63,055	..	0.673	..	.	3
10	70	.....	.	22,428	296	196	22,724	.....	1.00	....	4	..
8	68	.	.	17,054	400	185	17,454	..	1.14	....	2	..
138	854	..	..	279,878	6,556	178	286,434	.	■.946	....	35	8
1,969	7,362	2,768,018	52,361	372,608	129,503	...	3,322,490	..	.	.	142	31

Whole number of mines reported in 1903—181.
 Number of new mines opened during the year—23.
 Number of mines abandoned during the year—33.
 Whole number of mines reported for 1904—171.

THIRD INSPECTION DISTRICT—1904.

TWENTY-FIRST ANNUAL REPORT.

Counties—Cass, Fulton, Hancock, McDonough, Menard, Peoria, Sch
Tazewell.

JAMES TAYLOR, *Inspector*, Peoria.

HON. DAVID ROSS,
Secretary, State Bureau of Labor Statistics, Springfield, Ill.

SIR—I have the honor to submit the twenty-first annual report c
mines located in the third inspection district. The coal producing co
of which are Cass, Fulton, Hancock, McDonough, Menard, Peoria, Sc
and Tazewell.

The tabular part of the report gives the number of tons of coal mine
number of kegs of powder consumed; the number of boys over 14 years
working in the mines, also the number of miners and other employe
number of shipping and local mines; the aggregate value of the total p
at the mines; the thickness of the coal seams, with the geological n
and the depth of the seams below the surface; the number of casualties
and non-fatal; the number of mines, old, new and abandoned; the tota
of the different grades of coal produced and the number of days of
operation of each mine during the year.

The total number of mines reported this year is 238, of which 55 are
ping mines and 183 are local mines. The shipping mines are increas
five, being four in Fulton county and one in McDonough.

The following summary shows the prominent features to be found in
report:

Number of counties.....	
Total number of mines.....	
Number of shipping mines.....	
Number of local mines.....	
Total number employés.....	
Number of miners.....	
Number of other employés, underground, including boys.....	
Number employed above ground.....	
Number of kegs of powder used.....	1
Number of fans in the district.....	
Total tons of coal produced.....	3,08
Tons of mine run.....	76
Tons of lump.....	1,57
Tons of egg.....	10
Tons of nut.....	17
Tons of pea or screenings.....	30
Tons of slack or waste.....	15
Tons of coal shipped.....	2,51
Tons sold to local trade.....	12
Tons supplied to locomotives.....	24
Tons consumed at the mines.....	33
Aggregate value of the total product.....	48
Average value per ton of all grades.....	
Average number of days of active operation, shipping mines.....	

average price paid per ton for hand mining, mine run..	\$0.6067
number of fatal accidents.....	16
number of non-fatal accidents.....	9
number of employes to each fatal accident.....	301
number of employes to each non-fatal accident.....	534
number of tons of coal to each fatal accident.....	191,151
number of tons of coal to each non-fatal accident.....	338,824

A comparative table is presented of the product of each county in the district with the loss or gain for the years 1903 and 1904:

COUNTY.	TOTAL PRODUCT OF ALL GRADES OF COAL —TONS.		Increase.	Decrease.
	1903.	1904.		
.....	2,807	2,780	.....	27
on.....	1,036,496	1,284,279	247,783	.....
cock.....	11,340	12,270	930	.....
Donough.....	43,394	60,574	17,180	.....
ard.....	492,328	543,763	51,435	.....
ia.....	920,716	939,737	19,021	.....
tyler.....	15,734	18,400	2,666	.....
ewell.....	185,535	196,611	11,076	.....
Totals.....	2,708,350	3,058,414	350,091	27

Net increase.....350,064 tons.

All the counties in the district show an increase in tonnage over last year except Cass, which shows a very small decrease. The net increase for the district being 350,064 tons. The shipping mines have increased from 50 last year to 55 this year, and 387,376 more tons were shipped this year than last.

INSTALLATION OF ELECTRIC HAULAGE PLANTS.

The following coal companies have installed electric plants during the past year: Athens Mining Co., Athens; Howarth & Taylor, Edwards; Big Creek Coal Co., St. David; Newsam Bros., Farmington; Clark Coal & Coke Co., Morris.

The plant of the Clark Coal & Coke Co. was installed by the Goodman Mfg. Co., and consists of a 16x16 automatic McEwen engine 175 H. P., 250 revolutions per minute, directly connected to a 100 K. W. Goodman multipolar generator, voltage 250; a single marble switch board with 300 volt voltmeter, 300 ampers ammeter, 400 I. T. E. circuit breaker, 400 ampere switch; and suitable station equipment makes this plant complete.

The haulage equipment consists of two six ton single motor locomotives, of 600 volts, and 36 inches gauge. These locomotives are equipped for double control. This type of locomotive is provided with a single motor, the nature lies lengthwise of the frame, and is geared to both axles, thus making every wheel a driver and utilizing the entire weight of the machine for traction purposes. The use of one motor insures that both axles shall revolve at the same speed, which is indispensable for the best tractive results and is quite impossible where two motors are used.

The plant of the Athens Coal Mining Co. consists of a 17x16 automatic McEwen engine, 190 H. P. at 250 revolutions, directly connected to a 125 K. W. Goodman multipolar generator, 250 volts, with a single marble switchboard correspondingly equipped to that furnished for the Clark Coal & Coke Co. With the exception of the units being of 25 per cent greater capacity, in the make of this plant. The plants of the two mines are of the same type.

The haulage equipment consists of a ten-ton single motor locomotive, the same type as those installed at the Clark Co.'s mine. The gauge of track in the mine is 34 inches and the amount of haulage circuit is 4,000 feet. The company furnishes its own boiler plant.

The plant of the Big Creek Co. consist of a 17x16 automatic McEwen engine, capacity 150 H. P., belt connected to 125 K. W. Goodman multipolar generator 250 volts, with a single marble switchboard. The haulage equipment of this mine consists of one five-ton Goodman gathering motor.

The plant of Newsam Bros. Coal Co. consists of a 16x28 single engine, capacity 160 H. P., belt connection to 100 K. W. Goodman multipolar generator, 200 volts. The haulage equipment consists of one six-ton Goodman motor. The belt wheel on the engine shaft is 14.5 feet in diameter, and the belt wheel on the generator is two feet.

The electric plant of the Howarth & Taylor Coal Co., at Edwards, consists of a 60 H. P. automatic McEwen engine, a 42 K. W. Goodman multipolar, a 250 volt generator, a skeleton switchboard, a 300 volt voltmeter, a 200 ampere ammeter, an automatic circuit breaker, a 200 ampere, D. P. S. T. switch and four lighting arrestors. The haulage locomotive is a Jeffrey electric motor of the D. M. 26 type, gauge 34 inches, five tons and of 250 volts. The trolley wire is 4,726 feet long.

SPECIFICATIONS.

For the guidance of those contemplating the installing of electric generators and motors at coal mines, the following specifications are suggested:

The generator to be of normal rated capacityK. W. with a no load voltage of.....volts and compound wound for ten per cent rise in voltage. The rated speed to be..... R, P. M.

Conditions of Rating—The dynamo to be capable of carrying its full load ofamperes and.....volts for a continuous period of ten hours, without sparking or heating any part of it more than.....degrees centigrade above the surrounding air.

To be capable of carrying a 50 per cent overload for one hour, without injury when already heated by its normal load, and without heating its windings more than 55 degrees centigrade, also to be capable of taking 100 per cent overload momentarily without injury.

The design and proportions of the field, and armature coils and windings, to be such as to secure a fixed line of commutation for the brushes, so that the load may be varied at any desired rate, from no load to 25 per cent overload, without calling for any change in lead of the brushes, and without causing objectionable sparking. The machine is also run without injurious sparking up to 50 per cent overload.

Efficiency—The efficiency of the dynamo to be 90 per cent at full load and 82 per cent at half load. Loss due to belt is included for belted generators.

Frame—The field magnet to consist of a circular yoke in two symmetrical halves joined horizontally on a plane, passing through the center of the shaft. The frame shall be of cast iron, and there shall be.....poles of laminated wrought iron or soft steel joined by being bedded into its castings.

Magnet Winding—The series and shunt to be wound in distinct coils, each adequately insulated and protected so as to make them practically moisture proof. The series to be wound of flat copper bar bent to the proper form. The shunt coils to be wound of double cotton covered wire, and the two coils to be so supported as to allow ample ventilation between and around them.

Armature—The armature to be slotted or iron clad type. It is to be built up of discs of sheet steel of the highest magnetic quality, each disc to be insulated from the next by a thin layer of insulating material. The armature conductors to be of flat copper so bent to form the coils that there shall be no soldered or other joint except at their junction to the commutator. These conductors shall be insulated by an armor of micamite, tape, and other insulating material, and held in place by wooden strips driven into grooves provided in core teeth for the purpose.

Commutator—The commutator to be mounted on a hub, keyed to the armature shaft. The length of the commutator bars to be such as to allow ample

space for the brush surface. The insulation between these bars to be of the best mica, suitable for the purpose, and of such hardness as to wear down equally with the copper. Excepting between the bars, all other insulation between copper segments and grounded part of commutator to be mica 3-32 inches in thickness.

Brushes—The brushes to be of carbon. The current density per square inch of brush, in contact with the commutator face, not to exceed 30 ampere at full load. The brush holders to be arranged to allow maximum freedom of access to the commutator, also to allow sufficient contact of the brush with the holder, and to leave the brush perfect freedom to follow up any unevenness in the commutator.

Electrical Features—The winding of fields and armature to be free from all electrical defects. The machine to be capable of withstanding a breakdown test of 2,000 volts alternating current. All current carrying parts to be arranged so as to have ample ventilation.

Mechanical Features—The design of construction to be strictly first-class in every respect. The mechanical construction of the commutator to be such that the segments shall be firmly held in position against all disturbing effects due to normal operation.

The workmanship to be in general of the highest class. All parts to be accurately made to standard gauge. All joints to be dressed and finished so as to present a neat appearance. The nuts and heads of bolts to be hexagonal and to be suitably finished where exposed.

POWDER BLASTING.

Many of our accidents are clearly due to ignorance on the part of some miners, who seem only to know that powder placed in a hole and tamped will produce an explosion that will break the coal. They are entirely ignorant of the expansive force of powder, of the resistance of a solid body of coal, and in fact of the simplest principles of mining. Instead of being miners they are nothing more than unskilled laborers, and many of our disasters are a convincing proof of the claim so frequently made, that the successful and intelligent miner is a skilled mechanic. It is unfortunate that such unskilled labor is gaining a footing in the coal mines of our State, but the fact that this is so is before us, and a remedy is needed. What this remedy shall be is hard to say, but it seems remarkable that the principle applied in other industries ought to be at least tried in the mines, and this principle is, to make every man that desires a place as a miner show that he has served an apprenticeship and has learned his trade.

Experience is fully demonstrating that neither life nor property is safe when in the keeping of densely ignorant and inexperienced men. The cause of explosions of all kinds should receive greater attention and consideration, for the reason that no matter how intelligent, careful or circumspect a man, or number of men, may be who work in a mine, they are always liable to be the victims of some foolish or overt act that would cost them their lives, and, as the strength of the weakest link in a chain measures the strength of the whole chain, so their safety is measured by the probable misconduct of some ignorant or vicious person who cannot realize the awful consequences of this misbehavior.

A blown out shot is one in which the powder blows out the tamping in the drill hole, and does not throw the coal. In such cases the rush of gases into the air will be greatest and more concentrated. The energy of the powder expends itself in moving the tamping in the drill hole and the air outside of it. These shots are capable of causing an explosion on a large scale, and of carrying a flame to distant points in the mine, frequently burning men who have retired to places where they considered themselves entirely safe from any possible effects of a shot.

There is the force due to the expansion of the gases and again there is the force due to the contraction. Lack of room for the rapid expansion and dissipation of heat produced, by the firing of a tight or windy shot, causes an explosion.

How many of our miners can verify the statement by saying they have quite a number of times, when returning to the working face, after firing a shot,

applied their naked light to the smoke as it was issuing out from the coal, or between the coal and roof, from a shot that had failed to throw the coal, the result being a flash or a small explosion.

To make mines safe and profitable, we must encourage the men working in them to obtain such instructions as will brighten and elevate them and fit them to be our protectors.

The practice followed in this district, in getting the coal, is that of blasting off the solid, that is, drilling the blast holes horizontally into the face of the solid coal, charging them heavily with powder and tamping with fine dust or clay. The evils resulting from this system of getting the coal are many and great, and there is nothing to recommend it. The excessively heavy shots, employed with this system of blasting coal, are productive of a large proportion of the powder being consumed in the atmosphere of the mines, thus endangering the lives of the men and the property of the company.

In 1895 blasting powder was altogether excluded from the coal mines of Germany because the Prussian commissioners had shown that it was highly dangerous and should therefore be no longer used in coal mines. The only favorable word that can be said of blasting powder is that it is cheap.

Powder is composed of saltpeter, charcoal and sulphur. A spark of fire changes the powder into a powerful agent. In an instant the gaseous elements in powder expand 300 times their original size, and changes a grain of powder to a volume of carbonic oxide. The chemical union of the oxygen of the saltpeter with the carbon atoms of the charcoal can take place only on the surface of charcoal grains, the first layer must be consumed before the second can be reached, and so on. It is owing to this fact that common powder is better for blasting coal than dynamite. The two sets of atoms in dynamite are not in different grains, but in one and the same molecule, and the combustion of this molecule is practically instantaneous and expands in volume 900 times. The explosion of blasting powder produces, not only a great amount of flame, but of the gases resulting from such explosion, about 49 per cent are combustible and explosive. The most disastrous explosions, caused by windy or blown out shots in our mines, have occurred when the ventilation was of superior character. This is natural as the oxygen in the good ventilating current aids in the quick ignition and combustion of the carbonic oxide gas given off by the incomplete combustion of the powder. The production of carbonic oxide, (CO) in the mines, is very injurious to health, one-half per cent in the air being fatal to life. In a well tamped shot, if the walls of coal resist rupture long enough for the complete combustion, we should obtain by the expansion a cooling. In a shot which has been drilled "dead" or on the "solid" the coal does not yield at all and the effects of the explosion are lost, or else the coal yields before the combustion is complete, so that the burning powder is thrown into the atmosphere of the mine. The products of the incomplete combustion of powder attains a temperature of several thousands of degrees.

FATAL ACCIDENTS.

July 9, 1903, Charles Bishop, miner, aged 42 years, married, was killed in Vickery Bros. mine, Kickapoo. Peoria county, by falling roof at the working face of his room. The room in which he worked was securely propped to a few feet of the face, where there was a slip extending across the room; while slatting a shot he liberated that portion of the roof containing the slip, which fell with the result as stated. He leaves a widow and eight children.

July 15, 1903, Harry Mills, Sr., miner, aged 62 years, widower, was killed at the Ubben Coal Co's mine, Pekin, Tazewell county. Deceased was returning to his room to fire a second shot; at the same time Wm. Houtts fired a shot in a cross-cut, in the adjoining room, which blowed through the pillar just as Mills was opposite the shot. His neck, arms and legs were broken. He leaves two orphan children.

Aug. 21, 1903, Alfred Stockton, miner, aged 32 years, married, was killed at the Higbee Coal Co's mine, located at Princeville, Peoria county. Deceased fired a shot which ignited two kegs of blasting powder. The deceased was

was responsible for the accident, died after lingering in agony for over 24 hours. He was working in a room next to his brother William; After he had fired the shot he noticed that his keg of powder had not been put in the powder box, and before he had time to reach the keg, the shot in his room exploded. It proved to be a windy shot, which overturned the keg, spilling the powder on the roadway. The flame from the shot fired his keg of powder, which in turn overturned his brother William's box, containing a keg of powder, that had been opened, firing it also. William Stockton was very badly burned, but is expected to recover. Since writing the above he is again working in the mine. Deceased leaves a widow and three children.

Oct. 31, 1903, Frank Rutledge, driver, aged 43 years, single, was killed in the mine of the Norris Coal Co., Norris, Fulton county. He was pulling empty cars into the mine; the cars jumped the track, knocking out the timbers on the entry, the roof falling on him, killing him instantly.

Oct. 31, 1903, three men were killed in an accident in the Newsam Co. mine at Farmington, Fulton county, Myron McKann, Ernest Anderson and Jack Williams. The men were riding in a pit-car drawn by a mule. In making a turn near a switch the car jumped the track and ran into the side of the entry, knocking down a prop, thus letting down a portion of the roof on the men. McKann and Anderson were instantly killed and Williams died a half hour later. McKann leaves a widow and five children; Williams a widow and two children; Anderson was a single man.

December 3, 1903, Henry Donna, miner, aged 42 years, single, working in the mine of the Norris Coal Co., Norris, Fulton county, was killed while going back to a shot that he was doubtful about having exploded; when within a few feet of the face of the room the blast exploded killing him instantly.

December 21, 1903, Henry Wolden, driver, aged 22 years, single, was killed at the star mine of Newsam Bros., Peoria, Peoria county. He was run over by a loaded pit car.

January 8, 1904, John Frew, miner, aged 26 years, single, employed at the mine of the Greenview Coal Co., Greenview, Menard county, was killed while passing over the electric motor. He had finished his day's work and was on his way to the bottom of the shaft, and stopped for a while on the main entry parting until the motor had finished switching; by some means unknown his neck came in contact with the live wire and the shock killed him. The statement that electric generators having only 250 voltage will not kill is disproved by this fatal accident, which took place one and quarter miles from the generator, showing that at that distance where the voltage would be less than 250; the shock proved fatal.

January 16, 1904, F. A. Street, firer, aged 29 years, married, employed at the mine of Clark Coal & Coke Co., located at Limestone, Peoria county. He, with his brother, S. Street, were firing a shot in number 11 room off of the sixth east entry. In this room they had fired three shots, two with sulphur and one with gas squibs; two of the shots exploded, and thinking that the third had also exploded they went back, about the time they got within ten feet of the shot it exploded, killing F. A. Street, and injuring his brother. Deceased leaves a widow and three children.

February 10, 1904, Elmer Graham, loader, aged 21 years, single, was killed by falling roof, while drawing pillars in the mine of the Treasure Coal Co., Bartonville, Peoria county.

February 16, 1904, William Loveland, driver, aged 23 years, single, employed at the mine of Spoon River Coal Co., Ellisville, Fulton county, was killed 100 feet from bottom of the main shaft, on the main north entry, where there is a curtain hung across the entry. He had made one two-car trip and went back to make another, but did not have time to get two cars, so started to the bottom with one; throwing the coal back from the front end of car that he could have a seat and passing under the curtain, which is held up by a 2x8 inch board, he struck his forehead against the board, throwing him backward on the coal on top of the car, crushing his skull.

February 20, 1904, George T. Tjarks, miner, aged 54 years, widower, was killed by falling roof from a slip at the face of the entry in the mine, operated by Reentz & Sons, Kramm station, Peoria county.

February 24, 1904, Frank Morphew, driver, aged 27 years, widower, was killed at the Monmouth Coal Co.'s mine, Brereton, Fulton county. He was

driving a mule on the main south entry, when he fell and caught his foot under the car which broke his back in three places. He died two and a half hours afterwards. He leaves an orphan child.

March 22, 1904, T. G. Kelley, miner, aged 40 years, married, was killed at the East Peoria Coal Co.'s mine, located at East Peoria, Tazewell county. Kelley had prepared two shots in his room, one of which had exploded but the other hung fire; after waiting a short time, he asked another miner, Doering, to go into the room with him to light the shot; as they entered the room they observed the burning fuse, Kelley ran to seize it with the intention of pulling it out, just at that moment the shot exploded, killing Kelley and burning Doering. Deceased leaves a widow and three children.

The tables of fatal and non-fatal accidents, also the county tables of the output of coal of the district follow.

Respectfully submitted,

JAMES TAYLOR,

State Inspector of Mines, Third District, Peoria.

Fatal Casualties—Third District—July 1, 1904.

Date.	NAME.	Age.	Occupation.	Residence. (Town.)	Married.	Widows.	Children.	Single.	No. persons dependent	Cause of accident.
July 1903	9 Charles Bishop	42	Miner	Kickapoo	1	1	6			9 Falling roof.
Aug 15	Harry Mills, Sr.	62	Miner	Pekin	1		2			2 Shot explosion
Aug 21	Alfred Stockton	32	Miner	Princeville	1	1	3			4 Powder explosion.
Oct. 31	Frank Rutledge	43	Driver	Norris				1		Falling roof
	31 Myron McKann	35	Miner	Farmington.	1	1	5			8 Falling roof
	31 Ernest Anderson	21	Miner	Farmington.				1		Falling roof
	31 Jack Williams	30	Miner	Farmington.	1	1	2			3 Falling roof
Dec. 3	Henry Donna	42	Miner	Norris				1		Premature blast
	21 Henry Wolden	22	Driver	Peoria				1		Coal car
Jan. 1904	8 John Frew	26	Miner	Greenview				1		Electrocuted
	16 F. A. Street	29	Shot firer	Peoria	1	1	3			4 Premature blast
Feb. 10	Elmer Graham	21	Loader	Peoria				1		Falling roof
	16 William Loveland	23	Driver	Ellisville				1		Crushed between roof and car
	20 George T. Tjarks	34	Miner	Kramm Sta.	1		6			Falling roof
	24 Frank Morphew	27	Driver	Brereton	1		1			Falling under car
Mar. 22	T. G. Kelley	40	Miner	Peoria	1	1	3			4 Premature blast.
	Total 16				9	6	33	7	33	

Recapitulation of Fatal Casualties—Third District—1904.

Residence.	No.	Occupation.	No.	Nature of Casualty.	No.	Colliery.	No.
Brereton	1	Drivers	4	Electrocuted	1	Clark Coal Co	1
Ellisville	1	Loader	1	Falling roof	7	East Peoria Coal Co	1
Farmington	3	Shot firer	1	Pit car	8	Greenview Coal Co	1
Greenview	1	Miners	10	Powder explosion	1	Higbee Coal Co.	1
Kickapoo	1			Premature blast	3	Monmouth Coal Co.	1
Kramm Stat'n	1			Shot explosion	1	Newsam Coal Co	4
Norris	2					Norris Coal Co	2
Pekin	1					Reents Bros	1
Peoria	4					Spoon River Coal Co	1
Princeville	1					Treasure Coal Co	1
						Ubber Coal Co.	1
						Vickery Bros	1
Total	16		16		16		16

Non-Fatal Casualties—Third District—July 1, 1904.

Date.	NAME.	Age.	Residence. (Town.)	Married. Single. Children. No. persons dependent.	Character and cause of accident.
1903					
Aug. 21	William Stockton	29	Princeville.	1	1 Body burned, powder expl'n.
Oct. 31	William Bowen	40	Farmington	1	Body bruised, falling roof
31	Teddy Bowen	23	Farmington	1	Body bruised, falling roof
	Will Thurston	18	Farmington	1	Body bruised, falling roof
Dec. 31	Andrew Hrneck	30	Wesely City	1	Face cut, premature explosion.
1904					
Jan. 16	Sam Street	22	Peoria.	1	Face burned, premature blast.
Mar. 8	Ben Mehle	42	Peoria.	1 2 3	Leg broken, falling rock
Apr. 22	Peter Doering	45	East Peoria	1 2 3	Face burned, powder explosion.
Apr. 15	Steve Picinine	41	Brereton.	1 2 3	Face burned, powder explosion.
	Total.			4 5 6 10	

Recapitulation of Non-Fatal Casualties—Third District—1904.

RESIDENCE.	No.	Occupation.	No.	Cause of Accident.	No.	Colliery.	No.
Brereton	1	Driver.	1	Falling roof	3	Clark Coal & Coke Co.	2
East Peoria.	1	Miners	7	Falling rock	1	East Peoria Coal Co.	1
Farmington.	3	Shot Firer.	1	Powder explosion.	3	Ed. Little Mine	1
Peoria.	2			Premature blast	2	Higbee Coal Co.	1
Princeville.	1					Monmouth C. Co.	1
Wesley City	1					Newsam Bros.	3
Totals.	9		9		9		9

Cass County Third District—1904.

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE.				
			Total	Mine run.	Lump.	Egg.	Nut
LOCAL MINES.							
1	Wm. Shore	Chandlerville.	1,580	.....	1,580		
2	Charles Nelson	Chandlerville.	1,200	.....	1,200		
Totals			2,780	.....	2,780		

Mines in 1903, 2.

Mines in 1904, 2.

Fulton County—Third District—1904.

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE.				
			Total	Mine run	Lump,	Egg	Nut.
SHIPPING MINES.							
1	Whitebreast Fuel Co. of Ill., E ...	Dunfermline.	201,955	17,114	181,595		10,227
2	Monmouth Coal Co., No 1	Brereton . .	183,051	824	58,798	57,142	15,829
3	Maplewood Coal Co., Blk. Hawk ..	Peoria	162,749	2,895	70,574	47,797	39,573
4	Norris Coal Mining Co	Norris	104,761	14,259	61,807	2,582	15,113
5	Applegate & Lewis, West Shaft ..	Cuba	83,000	30,000	32,000		21,000
6	Central Coal Mining Co	St. David ...	72,120	.....	62,540		9,580
7	Whitebreast Fuel Co. of Ill., C ..	Dunfermline.	70,855	40,875	20,595		2,385
8	East Cuba Coal Co., East shaft ..	Cuba	67,421	37,451	22,470		8,500
9	Newsam Bros.	Farmington ..	43,734	.....	28,427		15,307
10	Whitebreast Fuel Co. of Ill., D ..	St. David ..	38,985	23,927	8,336		1,722
11	Canton Union Coal Co	Canton	35,324	35,324			
12	Scrapps Coal Co	Astoria	34,680	1,640	26,000		7,040
13	Farmington Coal Co.	Farmington ..	32,480	2,304	21,408		8,768
14	W. E. Foley	Canton	31,390	.....	26,280		5,110
15	Spoon River Coal Co	Galesburg ..	16,980	2,640	12,230		2,110
16	Essex & Fritz	Galesburg ...	10,240	10,240			
17	Monarch Coal & Mining Co...	Farmington ..	9,233	771	5,607		2,855
18	J. Riley	Breeds	8,985	4,495	3,090		1,400
19	Putnam Coal Co	Cuba	8,360	.....	6,740		1,620
20	Essex & Fritz Coal Co.	Galesburg ...	8,280	8,280			
Totals			1,222,483	232,829	598,473	107,901	51,697

Cass County—Third District—Concluded.

IN TONS.		Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
Pea or screenings.	Slack or waste.		Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
		\$2,765	4	4	8	.....	..	1,580	.....	.....	1,580	1
		2,100	3	4	7	.....	..	1,200	.....	.....	1,200	2
		\$4,865	7	8	15	.....	.....	2,780	.....	.....	2,780	

NOTE.—Average price paid for hand mining, \$1.00 per ton.

Fulton County—Third District—Continued.

IN TONS.		Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
Pea or screenings.	Slack or waste.		Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
6,188	36,778	\$247,687	151	77	228	194,244	..	255	7,446	231	201,945	1
46,735	3,128	237,898	151	102	253	178,713	.....	1,200	3,138	256	183,051	2
40,579		203,034	150	54	204	162,749	.....			230	162,749	3
264	25,585	144,152	85	44	129	91,161	11,400	1,000	1,200	232	104,761	4
21,000		97,800	85	47	132	64,900	15,000	100	3,000	280	83,000	5
2,140	1,210	..	92	17	109	70,910	..		1,210	210	72,120	6
2,308	4,444	87,767	77	55	132	68,256	..	342	2,257	207	70,855	7
1,490		75,681	65	28	93	63,198	..		4,223	205	67,421	8
5,025	1,535	42,969	47	27	74	38,699	..	3,500	1,535	217	43,734	9
..	3,180	45,441	40	19	59	36,103	..		832	244	36,935	10
..		38,836	40	16	56	30,000	..	4,524	800	271	35,324	11
..	810	45,085	51	18	69	33,870	..		810	200	34,680	12
..	5,630	39,305	42	19	61	26,850	..		5,630	200	32,480	13
1,210	1,520	36,791	38	11	49	29,870	..		1,520	230	31,390	14
1,450	640	25,958	20	5	25	16,320	..		640	210	16,960	15
..		12,800	6	2	8	10,240	..			247	10,240	16
2,855		11,928	13	9	22	6,918	..	499	1,816	233	9,233	17
1,400	..	9,661	10	1	11	8,720	265			200	8,985	18
1,260	250	12,789	10	2	12	8,110	..		250	243	8,360	19
..		10,738	11	15	26	8,260	..			210	8,260	20
29,994	84,708	\$1,584,882	1,184	568	1,752	1,148,091	26,665	11,420	36,307	227	1,222,483	

Fulton County—Third District—1904—Continued.

			OUTPUT OF M			
Number.	NAME OF OPERATOR.	Postoffice Address of mine.	Total	Mine run.	Lump.	Egg.
LOCAL MINES.						
1	Canton Coal Co	Canton ..	18,000	8,000	10,000	
2	Standard Coal Co.....	Canton	7,704	1,500	4,186	
3	Wm. Roddis	Ipava	3,520		3,520	
4	Joe McLaughlin	Canton ..	3,440		3,440	
5	W. E. Anderson	Canton ..	3,439		3,439	
6	Westfield & Co.....	Canton	3,140		3,140	
7	McBroom Bros	Canton	3,000		3,000	
8	A. M. Everly	Canton	2,100		2,100	
9	A. J. Gunnett	Fairview ..	2,000		2,000	
10	Stokes & Lee	Canton	2,000		2,000	
11	Yockum & Son	Lewistown ..	1,640		1,640	
12	Joseph Wilson	Astoria ..	1,240		1,240	
13	Temple Geiselman	Astoria ..	1,235		1,235	
14	E. P. Moran	St. David ..	1,000		1,000	
15	R. E. Gould & Co.....	Fairview ..	900		900	
16	John Wagner	Breeds	800		800	
17	L. R. Snider	St. David ..	800		800	
18	John Martin & Son	Canton	800		800	
19	Wm Murphy & Son	Canton	640		640	
20	Jacob Cleary	Fairview ..	640		640	
21	D. S. Mayall	Ipava	610		610	
22	A. Anderson	Fairview ..	542		542	
23	Robert Raby	Cuba	540		540	
24	Wm. Jordan	St. David ..	300		300	
25	L. W. Davis	Fairview ..	300		300	
26	T. H. Travis	Fairview ..	290		290	
27	Abraham Bath	St. David ..	280		280	
28	Little Black Diamond	Farmington ..	180		180	
29	Turner & Huber	Lewistown ..	150		150	
30	Martain & Peterson	Canton	150		150	
31	H. B. Doyle	Norris	140		140	
32	Geo. Prowl	Fairview ..	100		100	
33	Surprise Coal Co	Astoria	100		100	
34	W. H. James	Fairview ..	96		96	
Totals			61,796	9,500	50,228	
Totals—54 mines			1,284,279	242,329	646,701	107,601

Mines in 1903, 63.

New mines, 1.

Abandoned mines, 10.

Mines in 1904, 54.

Fulton County—Third District—Concluded.

No.	Slack or waste.	Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
			Average number of miners.	All other employees.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Total consumed or wasted at the mine.			
8.		\$25,000	25	8	33			18,000		250	18,000	1
		11,556	14	6	20			7,704		230	7,704	2
		5,280	8	1	9			3,520		200	3,520	3
		5,160	6	1	7			3,440		210	3,440	4
		5,159	10	1	11			3,439		230	3,439	5
		4,710	6	1	7			3,140		200	3,140	6
		4,500	8	1	9			3,000		270	3,000	7
		3,150	3	1	4			2,100		200	2,100	8
		3,000	4	1	5			2,000		230	2,000	9
		3,000	10	1	11			2,000		210	2,000	10
		2,542	12	1	13			1,640		200	1,640	11
		2,480	4	1	5			1,240		210	1,240	12
		2,470	2	1	3			1,235		160	1,235	13
		1,500	2	1	3			1,000		190	1,000	14
		1,350	4	1	5			900		160	900	15
		1,000	2		2			800		225	800	16
		1,000	5	1	6			800		130	800	17
		1,000	10	1	11			800		210	800	18
		800	6	1	7			640		90	640	19
		800	3	1	4			640		130	640	20
		915	4	1	5			610		90	610	21
		677	2		2			542		250	542	22
		675	2	1	3			540		280	540	23
		375	2	1	3			300		200	300	24
		375	2		2			300		100	300	25
		363	2		2			290		90	290	26
		350	2		2			280		100	280	27
		280	3	1	4			160		80	160	28
		300	7	2	9			150		110	150	29
		225	3	1	4			150		120	150	30
		210	2	1	3			140		200	140	31
		125	2		2			100		60	100	32
		150	6	2	8			100		110	100	33
		144	2		2			96		90	96	34
3		\$90,621	185	41	226			61,796		189	61,796	
2	84,708	\$1,625,508	1,869	608	1,978	1,148,091	36,665	73,216	36,307		1,284,279	

NOTE.—Price paid for hand mining, shipping mines: From July 1, 1903, to April 1, 1904, from April 1, 1904, to July 1, 1904, \$0.59.
Average price for year, \$0.6125 per ton.
20 tons mined by day.
Average price paid for hand mining, local mines, for year, \$0.728 per ton.

Hancock County—Third District—1904.

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE-				
			Total.	Mine run.	Lump.	Egg.	Nut.
SHIPPING MINE.							
1	Y. & J. Meredith	Augusta	8,320	.....	8,320	.....	.....
LOCAL MINES.							
1	C. H. Ellis	Augusta	1,430	.....	1,430	.....	.....
2	Geo. Worley	Augusta	840	.....	840	.....	.....
3	L. Bennett	Augusta	800	.....	800	.....	.....
4	S. Jones	Augusta	520	.....	520	.....	.....
5	Geo. Willey	Augusta	360	.....	360	.....	.....
Totals			3,950	.....	3,950	.....	.....
Totals—6 mines			12,270	.....	12,270	.....	.....

Mines in 1903, 6.
Mines in 1904, 6.

Hancock County—Third District—Concluded.

No.	Slack or waste.	Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
			Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
..		\$14,560	12	2	14	8,320				210	8,520	1
		\$2,860	6	1	7			1,450		210	1,450	1
		1,680	4	1	5			840		230	840	2
..		1,600	5	1	6			800		200	800	3
..		1,040	3	1	4			520		210	520	3
..		720	3	1	4			360		112	360	5
..		\$7,900	21	5	26			3,950		192	3,950	
		\$22,480	33	7	40	8,320		3,950			12,270	

RE.—Price paid for hand mining, shipping and local mines, \$1.25 per ton.

McDonough County—Third District—1904.

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MI			
			Total	Mine run	Lump.	Egg
SHIPPING MINES						
1	Rippetoe & Rundle.....	Colchester..	19,727	9,729	8,108	
2	Burney & Co	Colchester..	4,127		4,127	
Totals			23,854	9,729	12,235	
LOCAL MINES.						
1	L. E. Wilson	Blandinsville..	4,350		4,300	
2	John Wilson	Colchester..	3,704		3,714	
3	Ralph Oldham	Colchester..	2,511		2,468	
4	John Nee	Colchester..	1,848		1,848	
5	Barrett & Green	Colchester..	1,733		1,733	
6	Jackson M. Davis	Vermont..	1,324		1,304	
7	Atkinson Bros	Colchester..	1,248		1,248	
8	Thomas Cooper	Colchester..	1,088		1,048	
9	Charles Atkinson	Colchester..	1,040		1,025	
10	Laron Bowman	Industry ..	1,004		1,004	
11	W. B. Davidson	Colchester..	820		820	
12	John Berry	Colchester..	800		800	
13	Geo. W. Foster.....	Colchester..	720		720	
14	Wm. Kipling	Colchester..	700		700	
15	David Mordue	Colchester..	660		660	
16	William H. Robinson	Macomb ..	600		600	
17	Mitchell Humes	Colchester..	600		600	
18	Wayland Bros	Colchester..	600		600	
19	Lewis Lewis	Colchester..	580		580	
20	John Pearson	Colchester..	568		568	
21	John Mitchell	Vermont.....	559		559	
22	Elb Hillard	Colchester..	552		552	
23	C. E. Waddill	Tennessee ..	540		540	
24	Geo Polonus	Colchester..	500		300	
25	Wm. Eddington	Macomb ..	480		480	
26	John Putt	Colchester..	437		437	
27	Wm. Hudson	Colchester..	425		425	
28	Joseph Bunt	Colchester..	420		420	
29	Andrew Swanson	Colchester..	380		380	
30	Clay Nudd	LaHarpe ..	340		340	
31	Teel & Baker	Macomb ..	320		320	
32	Link Witley	Industry ..	320		320	
33	John Hetson	Colchester..	312		312	
34	Jackson Gilligan	Industry ..	312		312	
35	John Ruder	Colchester..	306		306	
36	Fred. Newneker	Bushnell ..	300		300	
37	Wm. Whalin	Colchester..	240		240	
38	Willis Stoneking	Fandon	240		240	
39	Aaron Crone	Colchester..	240		240	
40	Frank Burdick	Industry ..	230		230	
41	M. McClure	Colchester..	212		212	
42	E. H. Carmack	Colchester..	210		210	
43	Richard Lalty	Colchester..	200		200	
44	Anton Lokosik	Colchester..	193		193	
45	J. W. Harp	Colchester..	186		186	
46	John C. Kirkbride	Vermont.....	161		161	
47	Wm. Webster	Vermont	150		150	
48	Chas Porter	Macomb ..	140		140	
49	Frank Vogler	Birmingham..	120		120	
50	Wm. Hoar	Colchester..	120		120	
51	Harvey Russell	Colchester..	118		118	
52	D. E. Perry	Colchester..	110		110	

McDonough County—Third District—Continued.

Slack or waste.	Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.					Days of active operation.	Tons mined by hand.	Number.
		Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.				
	\$34,971	50	3	53	19,502	...	...	225	153	19,727	1
	6,190	10	4	14	4,127	..	..	..	283	4,127	2
	41,161	60	7	67	23,629	...	..	225	218	23,834	
	89,712	3	1	4			4,350		300	4,350	1	
..	6,080	10		10			3,794		280	3,794	2	
..	4,845	6	1	7			2,511		218	2,511	3	
..	3,898	7		7			1,848		200	1,848	4	
..	3,033	6		6			1,733		200	1,733	5	
..	2,618	4	1	5			1,324		120	1,324	6	
..	2,496	6	1	7			1,248		240	1,248	7	
..	1,854	3		3			1,098		175	1,098	8	
..	2,056	5	1	6			1,040		200	1,040	9	
..	2,008	4		4			1,004		230	1,004	10	
..	1,435	4		4			820		300	820	11	
..	1,600	3		3			900		190	900	12	
..	1,530	3		3			720		200	720	13	
..	1,400	2		2			700		250	700	14	
..	1,320	4		4			660		115	660	15	
..	1,350	3	1	4			600		68	600	16	
..	1,050	3		3			600		200	600	17	
..	1,060	3		3			600		211	600	18	
..	1,160	4		4			580		145	580	19	
..	1,065	3		3			568		175	568	20	
..	1,118	3		3			559		176	559	21	
..	1,104	2		2			552		278	552	22	
..	1,080	2		2			540		225	540	23	
..	875	3		3			500		144	500	24	
..	960	2	1	3			480		255	480	25	
..	785	2		2			437		200	437	26	
..	850	3		3			428		135	428	27	
..	840	3		3			420		140	420	28	
..	685	2		2			380		163	380	29	
..	880	4	1	5			540		200	540	30	
..	640	2		2			320		240	320	31	
..	640	2		2			320		150	320	32	
..	468	1		1			312		180	312	33	
..	624	3		3			512		130	512	34	
..	612	2	2	4			306		120	306	35	
..	600	3		3			300		115	300	36	
..	480	2		2			240		120	240	37	
..	440	3		3			240		80	240	38	
..	440	2		2			240		130	240	39	
..	480	3		3			230		80	230	40	
..	424	3		3			212		71	212	41	
..	368	2		2			210		215	210	42	
..	400	2		2			200		145	200	43	
..	338	1		1			193		175	193	44	
..	372	2		2			186		90	186	45	
..	322	2		2			161		45	161	46	
..	282	2		2			150		80	150	47	
..	280	2		2			140		75	140	48	
..	240	1		1			120		80	120	49	
..	210	1		1			120		120	120	50	
..	236	2		2			118		100	118	51	
..	192	1		1			110		75	110	52	

McDonough County—Third District—Concluded.

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE-				
			Total.	Mine run.	Lump.	Egg.	Nut.
LOCAL MINES— <i>Concluded.</i>							
53	Williams & Bro.....	Colchester....	105	.....	105	.....	.....
54	Andrew Newneker.....	Bushnell.....	100	.....	100	.....	.....
55	Wm. Bexson	Colchester....	100	.....	100	.....	.....
56	Smith Bros.....	Colchester....	85	.....	85	.....	.....
57	John Larson	Colchester....	80	.....	80	.....	.....
58	Hanson & Hunter.....	Industry	80	.....	80	.....	.....
59	James C. Teel	Macomb	75	.....	75	.....	.....
60	Jas. Goldsberry.....	Colchester....	64	.....	64	.....	.....
61	Walter Upham	Colchester....	40	.....	40	.....	.....
62	Wm. Robinson.....	Colchester....	20	.....	20	.....	.....
Totals.			36,720	.....	36,462	.....	.....
Totals—64 mines			60,574	9,729	48,697	.....	.....

Mines in 1903, 56.
New mines, 8.
Mines in 1904, 64.

McDonough County—Third District—Concluded.

IN TONS.		Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
Pea or screenings.	Slack or waste.		Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
.....	\$157	1	.....	1	.....	.....	108	.....	290	108	53
.....	200	1	.....	1	.....	.....	100	.....	105	100	54
.....	175	1	.....	1	.....	.....	100	.....	95	100	55
.....	142	2	.....	2	.....	.....	85	.....	40	85	56
.....	140	1	.....	1	.....	.....	80	.....	80	80	57
.....	160	1	.....	1	.....	.....	80	.....	80	80	58
.....	150	1	.....	1	.....	.....	75	.....	80	75	59
.....	112	2	.....	2	.....	.....	64	.....	40	64	60
.....	70	1	.....	1	.....	.....	40	.....	35	40	61
.....	40	1	.....	1	.....	.....	20	.....	20	20	62
258	\$70,595	172	10	182	.....	.....	36,720	.....	184	36,720	
2,142	\$111,847	232	17	249	23,629	.....	36,720	225	.....	60,574	

NOTE.—Average price paid for hand mining, shipping mines, for year, \$1.107 per ton.
Average price paid for hand mining, local mines, for year, \$1.346 per ton.

Menard County—Third District—1904.

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE—				
			Total.	Mine run.	Lump.	Egg.	Nut.
SHIPPING MINES.							
1	Greenview Coal Co	Greenview	145,772	.....	96,227	.....	25,345
2	Wabash Coal Co.....	Athens.....	143,708	69,976	55,989	.....	7,660
3	Athens Mining Co	Athens.....	101,301	24,810	48,684	.....	5,533
4	South Mountain Coal Co	Petersburg ..	40,343	18,451	13,553	1,101	.....
5	Tallula Coal Co	Tallula	36,268	24,172	10,280	.....	118
6	Petersburg Coal Mining Co.....	Petersburg ..	29,135	12,327	9,273	.....	951
7	Ensley Coal Co	Petersburg ..	15,280	15,280	.....	.....	.....
8	Middletown Coal Co..	Middletown ..	11,517	.....	8,530	.....	.....
Totals... ..			526,099	155,076	242,538	1,101	36,613
LOCAL MINES.							
1	G. F. Johnson	Middletown ..	6,133	.....	6,132	.....	.....
2	Arthur Wainwright	Sweetwater..	3,409	.....	3,409	.....	.....
3	H. M. Levering & Co.	Petersburg ..	2,400	.....	2,400	.....	.....
4	Peter Becker	Petersburg ..	1,853	.....	1,853	.....	.....
5	Lloyd Coal Co	Lloyd.....	1,680	.....	1,680	.....	.....
6	Riverside Coal Co.....	Petersburg ..	1,580	.....	1,580	.....	.....
7	Duncan Coal Co	Tice.....	610	.....	610	.....	.....
Totals... ..			17,664	.....	17,664	.....	.....
Totals—15 mines			543,763	155,076	260,200	1,101	36,613

Mines in 1903, 16.
Abandoned mine, 1.
Mines in 1904, 15.

Menard County—Third District—Concluded.

No.	Slack or waste.	Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
			Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
	11,022	\$169,479	110	43	153	130,285	.....	4,457	11,020	250	145,772	1
	5,000	171,740	120	56	176	155,859	.....	2,844	5,000	201	143,705	2
	2,926	117,817	83	37	120	95,650	.....	2,724	2,927	221	101,301	3
	1,552	38,014	39	20	59	30,596	3,255	4,940	1,552	211	40,343	4
	1,460	44,905	45	17	62	34,083	.....	3,725	1,460	196	36,268	5
	3,262	32,184	33	16	51	27,330	.....	1,258	347	206	29,135	6
	.....	16,788	26	9	35	12,000	.....	3,260	.....	225	15,260	7
	1,255	12,962	24	24	48	8,606	.....	1,456	1,255	135	11,317	8
	26,477	\$603,887	480	224	704	474,409	3,255	24,674	23,761	206	526,069	
	.....	\$10,731	7	2	9	.....	.....	6,132	.....	231	6,132	1
	.....	5,968	6	1	7	.....	.....	3,409	.....	182	3,409	2
	.....	4,200	5	5	10	.....	.....	2,400	.....	160	2,400	3
	.....	3,708	4	1	5	.....	.....	1,853	.....	200	1,853	4
	.....	2,520	2	1	3	.....	.....	1,680	.....	210	1,680	5
	.....	2,785	4	1	5	.....	.....	1,580	.....	200	1,580	6
	.....	915	2	1	3	.....	.....	610	.....	160	610	7
	...	\$30,803	30	12	42	.....	.....	17,664	.....	192	17,664	
	26,477	\$634,690	510	236	746	474,409	3,255	42,338	23,761	.....	543,763	

TE.—Price paid for hand mining, shipping mines: From July 1, 1903, to April 1, 1904, from April 1, 1904, to July 1, 1904, \$0.527.
 erage price for year, \$0.5405 per ton.
 erage price paid for hand mining, local mines, \$0.508 per ton.

Peoria County—Third District—1904.

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE.				
			Total	Mine run.	Lump.	Reg.	Net
SHIPPING MINES.							
1	Clark Coal & Coke Co., A	Peoria	122,230		73,340		48,890
2	Sholl Bros., No. 3.	Peoria	108,049	57,500	25,854		24,695
3	Wolschlag Coöperative Co. Co.	Peoria	82,376	82,376			
4	Newsam Bros	Peoria	71,136		46,238		24,898
5	Howarth & Taylor	Edwards	60,123		47,162		12,961
6	Newsam Bros	Peoria	60,663		39,444		21,219
7	Collins Coöperative C. Co	Bartonville	54,340	51,240	2,140		
8	Vickery Bros.	Peoria	38,040		35,230		2,810
9	Central Coal & Coke Co	Elmwood	34,606		29,415		5,191
10	A. Reents Bros	Kramm	25,230		23,000		2,230
11	Newsam Bros	Peoria	25,059		16,288		8,771
12	Newsam Bros	Peoria	24,880		16,172		8,708
13	C. B. Kramm	Peoria	20,200		15,000		5,200
14	W. E. Foley	Mapleton	17,980		13,480		4,500
15	Jas. Walker	Mapleton	15,957	9,574	4,560		1,823
16	Third Vein Coal Co	Orchard Mine	13,920		11,911		2,009
17	Peter Grant & Son	Peoria	13,680		10,840		2,840
18	German Coal Co	Peoria	10,700	10,700			
19	Cusack & Edwards	Edwards	5,640		5,640		
Totals			799,821	211,390	415,544		172,887

Peoria County—Third District—Continued.

IN TONS.		Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
Pes or screenings.	Slack or waste.		Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
15,000	8,890	\$151,844	100	82	182	113,340	...	...	8,890	223	122,230	1
10,400	...	124,427	90	26	116	102,500	...	549	...	265	103,049	2
...	...	98,851	44	13	57	82,378	...	...	...	280	82,378	3
8,800	1,871	77,894	74	27	101	87,765	...	1,500	1,871	221	71,138	4
10,959	2,004	87,792	57	25	82	58,121	...	...	2,004	247	60,125	5
7,300	1,802	66,448	58	80	88	58,881	...	2,500	1,802	207	60,833	6
...	1,000	64,870	35	10	45	53,380	...	...	1,000	220	54,380	7
...	800	49,932	45	10	53	35,000	...	2,440	800	230	38,040	8
5,191	...	47,237	50	22	72	30,488	...	2,920	1,200	280	34,608	9
2,220	...	31,015	82	8	40	23,600	...	1,680	...	210	25,230	10
2,520	939	27,439	27	21	48	23,320	...	800	939	139	25,039	11
2,514	1,218	27,244	27	17	44	22,839	...	800	1,221	193	24,880	12
...	800	23,180	25	7	32	19,600	...	...	800	190	20,200	13
2,580	580	20,586	30	6	36	17,400	...	...	580	212	17,980	14
1,823	...	19,719	27	6	33	15,887	...	...	...	220	15,987	15
...	1,289	21,453	32	14	46	11,811	...	1,259	850	240	13,920	16
2,100	240	15,458	30	7	27	13,380	...	...	240	220	13,630	17
...	...	12,840	15	4	19	10,470	...	...	230	210	10,700	18
...	...	7,332	8	3	11	5,450	...	...	190	180	5,640	19
71,717	21,033	\$963,519	796	288	1,084	783,406	...	14,196	22,217	220	799,821	

NOTE.—Price paid for hand mining, shipping mines, from July 1, 1903, to April 1, 1904, \$0.62, from April 1, 1904, to July 1, 1904, \$0.59, average price for year, \$0.6125 per ton.

Peoria County—Third District—Concluded.

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE.				
			Total	Mine run.	Lump.	Egg.	Nut
LOCAL MINES.							
1	Winters Cobperative C. Co.	Bartonville .	18,260	8,060	8,200		
2	Treasure Coal Co.	Bartonville	12,640	3,610	8,240		
3	Hibberd & Snedden.	Peoria	10,670	2,240	6,460		
4	Ball Coal Co.	Bartonville .	8,910	2,120	5,640		
5	Schmich Coal Co., No. 1	Peoria . . .	7,240		7,240		
6	Limestone Coal Co., No. 2 . . .	Peoria . . .	6,820		6,820		
7	Keller & Son	Bartonville .	6,780		6,780		
8	A. W. Higbee	Princeville	5,680		5,680		
9	Jefford & Bro.	Kingston M's.	5,200		5,200		
10	Fair Oak Coal Co.	Peoria . . .	5,200		5,200		
11	E. Mohen & Co.	Peoria . . .	4,280		4,280		
12	Joseph Crew	Chillicothe	3,730		3,730		
13	Jasper Wimburger	Chillicothe	3,640		3,640		
14	D. P. Wright	Chillicothe .	3,610		3,610		
15	White Coal Co.	Peoria . . .	3,460		3,460		
16	Martain Coal Co.	Peoria . . .	3,240		3,240		
17	Wantling & Burdett.	Pottstown	2,980		2,540		
18	Smith Miller	Mapleton . .	2,680		2,680		
19	Lowery Cobperative Co.	Orchard Mine	2,500		2,500		
20	J. Dempster	Peoria . . .	2,400		2,400		
21	Fisher & Block	Peoria . . .	1,800		1,800		
22	Fisher Bros.	Brimfield . .	1,600		1,600		
23	Tully & Heaton	Brimfield . .	1,580		1,580		
24	R. Taylor & Son.	Princeville	1,520		1,520		
25	W. Berry	Monica . . .	1,280		1,280		
26	Fash & Co.	Peoria . . .	1,280		1,280		
27	J. Turbett.	Peoria . . .	1,200		1,280		
28	Walk & Welsh.	Peoria . . .	946		946		
29	J. Staton	Orchard Mine	940		940		
30	Cluskey & Co.	Monica . . .	840		840		
31	D. Roberts	Orchard M's	720		720		
32	Black Bros.	Reed City . .	640		640		
33	Bell Coal Co.	Peoria . . .	620		620		
34	Wheeler Bros.	Orchard M's	580		580		
35	A. Johnson.	Hanna City	500		500		
36	J. Sanders	Monica . . .	500		500		
37	Wm. Clarkson	Edwards . .	460		460		
38	Jas. Pemble.	Elmwood . .	450		450		
39	D. T. Sanders & Son.	Glasford . .	450		450		
40	Robert Culbertson.	Brimfield . .	420		420		
41	Clark & Rook	Brimfield . .	400		400		
42	Dannie Lamay.	Monica . . .	380		380		
43	Hand & Ash.	Laura	360		360		
44	A. L. Thurman.	Laura	300		300		
45	W. E. Doyle.	Laura	280		280		
46	H. Durant	Brimfield . .	250		250		
47	Chas. Carroll	Duncan . . .	200		200		
48	E. H. Graves	Princeville . .	200		200		
49	Harry Green.	Jubilee. . . .	160		160		
50	C. E. Pratt	Jubilee. . . .	140		140		
Totals.			139,916	16,090	118,536		
Totals—69 mines.			999,737	227,420	534,060		20.18

Mines in 1903.
 New mines, 4.
 Abandoned mines, 4.
 Mines in 1904, 69.

Peoria County—Third District—Concluded.

Slack or waste.	Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
		Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
400	\$12,503	14	3	17			17,860	400	280	18,260	1
730	14,153	8	9	10			12,640		210	12,640	2
250	11,524	10	3	13			10,140	530	210	10,670	3
	9,144	6	2	8			7,780	250	240	8,010	4
	10,860	6	2	8			7,240		220	7,240	5
	10,280	6	3	9			6,820		200	6,820	6
	10,170	7	2	9			6,780		210	6,780	7
	11,480	8	2	10			5,680		250	5,680	8
	7,800	8	3	11			5,200		118	5,200	9
	7,800	6	2	8			5,200		200	5,200	10
	8,380	6	2	8			4,280		210	4,280	11
	7,460	5	1	6			3,730		210	3,730	12
	7,280	2	1	3			3,640		180	3,640	13
	7,220	4	1	5			3,610		160	3,610	14
	5,180	4	1	5			3,480		230	3,480	15
	4,860	4	4	8			3,240		200	3,240	16
	4,130	3	2	5			2,980		220	2,980	17
	4,020	4	1	5			2,680		220	2,680	18
	3,750	3	2	5			2,500		100	2,500	19
	3,600	3	1	4			2,400		200	2,400	20
	2,700	3	1	4			1,800		200	1,800	21
	3,200	4	1	5			1,600		190	1,600	22
	3,160	4	1	5			1,580		240	1,580	23
	3,040	3	2	5			1,520		250	1,520	24
	2,520	2	1	3			1,280		200	1,280	25
	1,880	3	2	5			1,280		230	1,280	26
	1,800	2	1	3			1,200		180	1,200	27
	1,419	3	2	5			948		100	948	28
	1,410	3	2	5			940		210	940	29
	1,680	2	2	4			840		300	840	30
	1,080	2	2	4			720		160	720	31
	960	2	2	4			640		160	640	32
	930	4	2	6			620		200	620	33
	840	2	2	4			560		160	560	34
	750	2	2	4			500		120	500	35
	1,000	2	2	4			500		180	500	36
	890	4	1	5			460		240	460	37
	900	6	1	7			450		210	450	38
	585	4	2	6			450		230	450	39
	840	3	1	4			420		180	420	40
	800	2	1	3			400		300	400	41
	760	2	1	3			380		220	380	42
	720	2	1	3			360		200	360	43
	600	2	1	3			50		230	50	44
	520	2	1	3			260		200	260	45
	500	3	1	4			250		210	250	46
	400	2	1	3			200		190	200	47
	400	3	1	4			200			200	48
	3 0	2	1	3			160			160	49
	280	2	1	3			140			140	50
1,380	\$203,138	212	75	287			138,730	1,180	300	139,916	
22,413	\$1,166,657	1,006	363	1,371	763,406		152,934	23,397		939,737	

E.—Average price paid for hand mining local mines for year, \$0.734 per ton.

Schuyler County—Third District—1904.

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE.				
			Total	Mine run.	Lamp.	Egg.	Nut
LOCAL MINES.							
1	William Cummings	Rushville	2,860		2,860		
2	B. F. Harris	Ray	2,600		2,600		
3	George Montooth	Ray	2,400		2,400		
4	Robert Keer	Rushville	2,340		2,340		
5	Williams & Clark	Rushville	2,340		2,340		
6	Hederick & Wetmore	Frederick	870		870		
7	Rufus Porter	Ray	850		850		
8	Alfred Nasbey	Pine Grove	780		780		
9	Ralph Strong	Pleasant View	700		700		
10	Velpo Rogers	Pleasant View	650		650		
11	John Cagle	Littleton	600		600		
12	John W. Hamilton	Frederick	400		400		
13	F. W. Croxton	Pleasant View	350		350		
14	O. A. Alexander	Huntsville	480		480		
15	George Edwards	Huntsville	200		200		
Totals			18,400		18,400		

Mines in 1903, 15.

Mines in 1904, 15.

Schuyler County—Third District—1904.—Concluded.

No.	Stack or waste.	Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
			Average number of miners	All other employes.	Total	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
		\$3,861	9	1	10			860		190	860	1
		2,510	7	1	8			600		240	800	2
		3,240	7	1	8			400		110	400	3
		2,159	4	1	5			340		110	340	4
		3,156	7	1	8			340		100	340	5
		1,088	4	1	5			870		160	870	6
		1,275	4		4			850		200	850	7
		1,170	4		4			780		180	780	8
		700	2		2			700		210	700	9
		650	4		4			650		150	650	10
		900	3		3			600		180	600	11
		600	2		2			400		80	400	12
		350	2		2			350		90	350	13
		920	2		2			460		110	460	14
		300	2		2			200		100	200	15
..	\$24,782	61	7	68	.....	.....	18,400	.....	157	18,400	

RE.—Average price paid for hand mining, \$0.804 per ton.

Tazewell County—Third District—1904.

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE-				
			Total.	Mine Run.	Lump.	Egg.	Nut.
SHIPPING MINES.							
1	Phoenix Coal Co, Hilliarg No. 1	Peoria . . .	43,232	43,232			
2	Tazewell Coal Co	Pekin	25,800	13,900	5,780		
3	Erie Starr Coal Co	Peoria	21,618	5,968	10,110		
4	Lake Erie Coal & Mining Co.	Peoria	18,200	9,070	6,000		
5	Little Coal Co., Hilliard No. 2	Peoria	18,140	18,140			
Totals.....			126,490	90,240	21,890		
LOCAL MINES.							
1	A. G. Cummings, Standard	East Peoria . .	14,744	420	10,000		30
2	Grossweiler & Co.	East Peoria . .	14,700	3,500	8,200		
3	Eastern Coal Co	Peoria	10,980	10,980			
4	L. Grant & Sons	Pekin	8,800	8,800			
5	Doering Coal Co, B. & B	Peoria	6,480	2,540	2,980		
6	Giebelhausen & Son	East Peoria . .	6,237	6,237			
7	Bohlender Bros., Victor.	Pekin	4,800		4,800		
8	Manhattan Coal Co	East Peoria . .	3,600	3,000			
Totals.....			70,121	35,457	25,760		30
Totals 13 mines			196,611	125,697	47,650		30

Mines in 1903, 16.
Mines abandoned, 3.
Mines in 1904, 13.

Tazewell County—Third District—1904.—Concluded.

No.	Slack or waste.	Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
			Average number of miners.	All other employes.	Total	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
1,161		\$49,716	55	21	76	42,632		600		210	43,232	1
		23,935	45	11	56	17,800		7,000	700	210	25,300	2
		27,694	23	11	34	14,740		5,717	1,161	233	21,618	3
		21,870	23	11	34	7,641		9,909	650	230	18,200	4
		20,861	20	8	28	17,890			450	200	18,140	5
1,161		\$144,076	166	62	228	100,303		23,226	2,961	219	126,490	
707		\$19,405	15	10	25			14,037	707	198	14,744	1
		22,450	5	2	7			14,700		200	14,700	2
		14,248	28	4	30			10,960		210	10,960	3
		11,000	12	4	16			8,800		220	8,800	4
		8,824	10	5	15			6,480		230	6,480	5
		9,355	8	2	10			6,237		200	6,237	6
		8,050	5	2	7			4,600		240	4,600	7
		3,990	5	3	8			3,600		200	3,700	8
707		\$97,322	86	37	118			69,414	707	211	70,121	
1,868		\$241,398	252	94	346			92,640	3,668		196,811	

TE. Price paid for hand mining, shipping mines, from July 1, 1903, to April 1, 1904, \$0.62; April 1, 1904, to July 1, 1904, \$0.59; average price for year \$0.615 per ton; average price local \$0.634 per ton.

Recapitulation by Counties-

COUNTIES.	Number of shipping mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Fulton.....	20	1,222,483	232,829	398,473	107,601	58,878	189,904	84,708	\$1,524,36
Hancock.....	1	8,320	.....	8,320	.....	.....	.....	.....	14,00
McDonough..	2	23,854	9,729	12,235	.....	.....	1,890	.....	41,00
Menard.....	8	526,069	155,076	242,536	1,101	39,812	61,087	26,477	600,00
Peoria.....	19	799,821	211,390	415,544	.....	80,137	71,717	21,038	983,50
Tazewell.....	5	128,490	90,240	21,890	.....	.....	13,199	1,161	14,00
Totals.....	55	2,707,067	699,284	1,298,998	108,702	178,827	287,697	133,379	\$3,302,06

Recapitulation by Counties-

COUNTIES.	Number of local mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Cass.....	1	2,780	.....	2,780	.....	.....	.....	.....	4,00
Fulton ..	34	61,796	9,500	50,228	.....	.....	2,068	.....	12,00
Hancock..	5	3,950	.....	3,950	.....	.....	.....	.....	7,00
McDonough	62	36,720	.....	36,462	.....	.....	255	.....	2,00
Menard..	7	17,664	.....	17,664	.....	.....	.....	.....	2,00
Peoria ..	50	139,916	10,080	118,536	.....	.....	3,970	1,330	12,00
Schnyler.....	15	18,400	.....	18,400	.....	.....	.....	.....	2,00
Tazewell ..	8	70,121	35,457	25,760	.....	300	7,897	701	12,00
Totals.....	183	351,347	60,987	273,780	.....	.....	14,193	2,067	\$3,000,00
Totals, districts—all mines.....	238	3,058,414	760,251	1,572,778	108,702	179,127	302,090	135,446	\$3,302,06

Whole number of mines reported in 1903—243.
 Number of new mines opened during the year—13.
 Number of mines abandoned during the year—18.
 Whole number of mines reported for 1904—238.

Third District—1904—Shipping Mines.

EMPLOYEES.		DISPOSITION OF OUTPUT.				Average number of days in operation.	TONS MINED.		PRICES PAID PER TON FOR		Number of steam boilers.	Number of fans.
All other employees.	Total	Tons loaded on cars for shipment.	Tons supplied to locomotives at mine.	Tons sold to local trade.	Tons consumed and wasted at mines.		By hand.	By machine.	Hand mining.	Machine mining.		
568	1,732	1,148,091	28,685	11,420	36,307	227	1,232,483	.....	\$0.6125	.....	43	18
2	14	8,320	.....	.....	.....	210	8,320	.....	1.25	.....	1	1
7	87	23,629	.....	.....	234	218	23,854	.....	1.107	.....	1	1
224	704	474,409	3,255	24,674	28,761	206	526,099	.....	0.5495	.....	22	8
288	1,084	763,406	..	14,198	23,217	220	799,821	.....	0.6125	.....	32	16
62	228	100,303	.....	23,228	2,961	219	128,490	.....	0.615	.....	9	5
1,151	3,849	2,518,158	29,920	73,518	85,471	220	2,707,067	.....	0.6067	.....	108	47

Third District—1904—Local Mines.

EMPLOYEES.		DISPOSITION OF OUTPUT				Average number of days in operation.	TONS MINED.		PRICES PAID PER TON FOR		Number of steam boilers.	Number of fans.
All other employees.	Total	Tons loaded on cars for shipment.	Tons supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at mines.		By hand.	By machine.	Hand mining.	Machine mining.		
8	10	.....	.....	2,780	.....	*	2,780	.....	\$1.00	.....	.....	.....
41	226	.....	.....	61,796	.....	189	61,796	.....	0.728	.....	2	1
5	26	.....	.....	3,950	.....	192	3,950	.....	1.25	.....	.....	.....
10	182	.....	.....	36,720	.....	184	36,720	.....	1.348	.....	3	1
12	42	.....	.....	17,684	.....	192	17,684	.....	0.598	.....	5	1
75	287	.....	.....	138,736	1,180	200	139,916	.....	0.734	.....	16	7
7	68	.....	.....	18,400	.....	157	18,400	.....	0.804	.....	1	.....
32	118	.....	.....	69,414	707	211	■,121	...	0.634	...	6	5
185	959	.....	.....	349,460	1,887	111	351,347	...	0.781	.....	■	15
1,388	4,808	2,518,158	29,920	422,978	87,388	.....	3,058,414	.....	.....	.....	140	62

* Days of active operation not given.

FOURTH INSPECTION DISTRICT—1904.

TWENTY-FIRST ANNUAL REPORT.

Counties—Christian, Edgar, Logan, Macon, McLean, Shelby, Vermilion, Woodford.

THOMAS WEEKS, *Inspector*, Bloomington.

HON. DAVID ROSS,
Secretary, State Bureau of Labor Statistics, Springfield, Ill.

SIR—In compliance with the mining law of the State of Illinois, defining the duties of the State inspectors of coal mines, I have the honor to herewith submit the twenty-first annual report of the coal mines in the fourth inspection district. The tabular statements in the report contain the different items called for in the schedules.

The following is a summary of the items contained in the report:

Number of mines.....	98
Number of new mines.....	11
Number of abandoned mines.....	2
Number of shipping mines.....	46
Number of local mines.....	50
Tons of all grades.....	5,142,786
Tons of mine run.....	3,296,049
Tons of lump.....	1,082,281
Tons of egg.....	77,853
Tons of nut.....	157,082
Tons of pea or screenings.....	378,516
Tons of waste.....	140,985
Average value per ton mine run, shipping mines.....	\$1.0136
Average value per ton of lump, shipping mines.....	\$1.67
Average value per ton of egg, shipping mines.....	\$1.46
Average value per ton of nut, shipping mines.....	\$1.13
Average value per ton of pea or screenings, shipping mines.....	\$0.65
Average value per ton of waste, shipping mines.....	\$0.28
Aggregate value of total product.....	\$5,590,508
Number of miners.....	4,967
Number of other employés underground.....	1,357
Number of boys underground.....	267
Number of employés above ground.....	72
Total number of employés.....	7,283
Number of tons loaded on cars for shipment.....	4,204,558
Tons supplied to locomotives.....	212,776
Tons sold to local trade.....	511,021
Tons consumed and wasted at the mines.....	223,086
Average number of days in operation.....	284
Tons mined by hand.....	4,991,000
Tons mined by machines.....	151,786
Price paid for hand mining per ton.....	\$1.01
Price paid for machine mining per ton.....	\$1.67
Number of mines using machines.....	50
Number of machines in use.....	13
Number of kegs of powder.....	1
Amount of dynamite used, pounds.....	
Number of steam boilers, horizontal.....	
Number of steam boilers, upright.....	
Number of fatal accidents.....	
Number of non-fatal accidents.....	
Number of wives made widows.....	
Number of children left fatherless.....	

NEW MINES.

In Vermilion county the Westville Coal Co. has completed its mine No. 2. This mine is intended for, and no doubt will be, a large producer in the near future, being fitted with all modern improvements. The escape and air shafts are completed and a 20-foot Crawford & McCrimmon fan installed. This company has also sunk mine No. 3, and have recently reached coal.

The Riolo Coal Co. is also sinking mine No. 4 in the same field.

The Electric Coal Co. has completed and equipped a new mine on the Big Four railroad about three miles west of Danville; the escapement and air shafts are also completed and a 15-foot Crawford & McCrimmon fan has been installed.

E. S. Gray has sunk and put in operation a new mine on the Big Four railroad about five miles west of Danville.

In Macon county the Blue Mound Coal Co., Blue Mound, has completed the sinking of its mine at that place; striking the number five seam at a depth of 500 feet; the coal is five feet and two inches thick. This mine is equipped with a steel tower, Duncan shaker screen and cages, and Litchfield engines, 24x36 inches. The air and escape shaft, which will be 8x12 feet in the clear, is now down about 150 feet.

The Manufacturers and Consumers Coal Co. of Decatur, has completed and put in operation a new mine at Decatur, striking the number five seam at a depth of 544 feet; the seam has an average thickness of four feet eight inches; the company has opened this mine on the room-and-pillar system, and have put in mining machinery. This is a departure from the system in the other two mines at Decatur, both of which are working on the long-wall plan. The engines are first motion. The company has also put in shaker screens to handle the output. The escape shaft is down about 450 feet.

In Shelby county the Century Coal Co. of Tower Hill, reached the coal about a year ago, at a depth of 802 feet, striking the Pana seam, with a thickness of eight feet; however, no work has been done excepting the driving of entries some 300 or 400 feet from the bottom. The engines, tower and cages are now in place and everything ready to begin operations as soon as a mining price can be agreed upon. The escape and air shaft, which is 8x12 feet in the clear, is down about 400 feet.

The foregoing are all shipping mines; regarding the local mines, there has been more or less changes as usual from year to year, and it will not add to the interest of this report to give such changes in detail.

ABANDONED MINES.

There have been no shipping mines abandoned in this district this year; but among the local mines there have been quite a number abandoned, and a like number have taken their places; the individual cases have not been noted.

PROSPECTIVE MINES.

The Kirksville Coal Co., Kirksville, Moultrie county, is sinking a shaft at that place. The shaft is now down about 100 feet; the company expects to strike the small seam, which is worked in Shelby county, at a depth of 150 feet, then drill from that depth and find what seam is below, if any. Some 10 or 35 years ago there was a small mine operated about half a mile from the present opening, which is one mile south of the village of Kirksville. The present company is composed of citizens of Sullivan and Kirksville, prospecting ventures are being made, the outcome of which is problematical.

The Lovington Coal Co., Lovington, Moultrie county, has commenced the sinking of a shaft at that place. This is the same location where the Moultrie County Coal Co. began to sink a shaft two years ago and failed. The new company is making the second attempt in sinking and hope to be successful.

The Christian County Coal Co. has commenced sinking operations at Stonington, Christian county.

IMPROVEMENTS,

The Latham Coal Co. of Lincoln, has put in a new 12-foot Robinson fan, and has also made changes underground, putting in overcasts, and splitting the air which has improved the ventilation materially.

The Citizens Coal Co. Lincoln, has raised the tower at its mine, putting in a new foundation. The company has also put in a 100-ton scale, two shaker screens and built a 350-ton screen house with roller screens; a relief shaft has been sunk to the lake a depth of 45 feet.

The Newbent Coal Co. of Pana, is putting in shaker screens.

MINE FIRES.

The engine house, tippie and other buildings of the Brookside Coal Co., Danville, Vermilion county, was destroyed by fire Oct. 31, 1903; as the mine was nearly finished the company did not rebuild the structures and went out of business.

C. J. White, a member of the company, however, rebuilt the part of the trestle which was destroyed by fire. The mine being a slope, it is now being operated by drawing the pillars; it is only a question of a short time when the pillars will be exhausted and the mine will be abandoned.

Dec. 17, 1903, the Lincoln Coal Co.'s mine at Lincoln, Logan county, was discovered to be on fire by the mine examiner, when going down the shaft to begin his duty of examining the mine. The engine that operates the endless rope haulage, is situated on the bottom of the shaft, as is also the fan used to ventilate the mine. The fire started in the engine house, destroying it and the fan and fan house. One hundred feet of the timbers along the entry at the bottom of the shaft were destroyed. Before work could be resumed at the bottom, about 60 feet of the top of the shaft had to be retimbered. The work of repairing the damage is now nearing completion, and the company expects to commence mining coal again in a short time. The loss entailed by the fire is estimated at \$50,000.

BUSINESS CHANGES.

The Colfax Coal Co., Colfax, McLean county, has sold its mine at that place to a number of miners who are operating it under the name of the Colfax Co-operative Coal Co.

The Berwick Coal Co., of Chenoa, McLean county, has disposed of its mine at that place to the Consumers Coal Co., of Chicago, which has been operating it since July 1, 1903.

Sutton & Weber of Rutland, LaSalle county, have leased the mine at Minonk, Woodford county, which has been closed down since March, 1901; they will operate it under the name of The Minonk Coal Co.

FATAL ACCIDENTS.

It will be seen, by noting the causes of the accidents, here reported, that a large percentage might have been avoided by the exercising of ordinary care on the part of those who have been killed. However, there does not appear to be any method nor argument that can be advanced which will induce the miner and the workmen to take proper precautions to secure their own safety.

July 10, 1903, John Jones, colored, miner, aged 38 years, married, employed in mine No. 1, of the Westville Coal Co., Westville, Vermilion county, was instantly killed by falling rock. The deceased was mining some loose coal from a shot that had been fired the night before, when a piece of rock fell from a slip, crushing his head. He leaves a widow.

July 16, 1903, Henry Busiere, Sr., miner, aged 46 years, married, employed by the Kellyville Coal Co., at the Pawnee mine, Grape Creek, Vermilion county, was injured by falling rock in room 13, off of the 24th south entry, from the effects of the injuries he died two days afterwards. He leaves a widow and five children dependent.

July 18, 1903, John Ray, miner, aged 30 years, married, employed in mine No. 4, of the Kellyville Coal Co., at Westville, Vermilion county, was instantly killed by falling rock in the second north entry; he had started a cross-cut in the face of the entry and was making ready to put up a crossbar, when the rock fell with the result as stated. He leaves a widow and three children.

Aug. 13, 1903, John Lane, brakeman, aged 21 years, single, employed by the Consolidated Coal Co., at the Mission Field mines, Vermilion county, was fatally injured in the afternoon and died eight hours afterwards. Deceased was riding on the footboard of the locomotive which pulls coal from the mines to the railroad, accidentally falling, the wheels passed over him, inflicting severe injuries, resulting as above stated.

Sept. 2, 1903, William Bitof, miner, aged 27 years, single, employed in mine No. 4, of the Kellyville Coal Co., Westville, Vermilion county, was instantly killed by falling rock at the face of his room. There was a coal slip at this face, which loosened a large piece of rock, causing it to fall with the result as stated.

Nov. 17, 1903, Theobald Young, laborer, aged 33 years, married, employed at the Kellyville Coal Co. mine No. 3, Danville, Vermilion county, while engaged in removing some rock in room No. 21, off the ninth north entry, was injured by falling rock, from the effects of which he died 11 days afterwards. He leaves a widow and three children.

Nov. 22, 1903, John Gedirlar, miner, aged 23, years, single, employed by the Kellyville Coal Co., at mine No. 4, Westville, Vermilion county, was instantly killed by flying coal from a shot in room No. 2, off the fourth south entry. Deceased had lit two shots, one having exploded, and he supposed the other had missed fire; he went to the room to investigate, just as he reached the face of the room the second shot exploded with the result as stated.

Dec. 9, 1903, Allen Cox, top-weighman, aged 54 years, married, employed by the Pana Coal Co., at mine No. 1, Pana, Christian county, was fatally injured while repairing the roller screen. Deceased, with some other men, his son among the number, were engaged in cleaning slack and fine coal around the screen house and elevators. Cox, leaving the other men, went up into the screen house to repair some broken places in one of the screens; his son having forgotten or not knowing that his father was working in the screens, started the engine, causing the screens to revolve; before the engine could be stopped, or Cox taken out, he received injuries which caused his death before he reached his home. He leaves a widow and eight children.

Dec. 19, 1903, Charles Yodalis, miner, aged 35 years, in the employ of the Kellyville Coal Co., at mine No. 3, Westville, Vermilion county, was instantly killed, by falling rock, in room No. 6, off of the tenth northwest entry. Deceased was loading a car of coal when a piece of rock about six feet long, five feet wide and six inches thick on one edge, thinning to a feather on the other, fell on him, with the result as stated. He leaves a widow and two children.

Dec. 21, 1903, Daniel Craig, engineer, aged 58 years, married, was injured in mine No. 3, of the Kellyville Coal Co., Westville, Vermilion county, and died from his injuries Dec. 29, 1903. Deceased was engaged in his duties looking after the engine, which pulls the coal cars from the inside with an endless rope; this engine is located at the bottom of the shaft; in some manner, unknown, he was caught in the hauling rope and dragged into the wheels, cutting off one of his legs. He was a widower, and leaves four children.

December, 26, 1903, Samuel E. Shadden, assistant cager, aged 36 years, married, employed by the Springfield Coal Mining Co., at mine No. 6, Taylorville, Christian county, was fatally injured, being crushed by a loaded pit-car falling on him. The deceased was in the act of pushing an empty car back from the cage, a loaded car had been put on the cage, but had been pushed too far over; before the latter car could be pulled back onto the cage, the engineer hoisted the cage, the end of the loose car catching on the door-head which pulled it off the cage, and it fell on Shadden. He died less than two hours afterwards, leaving a widow and five children.

January 9, 1904, Ori Osborn, driver, aged 25 years, single, in the employ of the Moweaqua Coal Mining Co., at Moweaqua, Shelby county, while attempting to stop his trip was run over by a loaded pit-car, breaking his thigh near the hip and inflicting other injuries, from the effects of which he died Jan. 23, 1904.

Jan. 12, 1904, Joe Glarze, miner, aged 55 years, married, employed in mine No. 3 of the Kellyville Coal Co., Westville, Vermilion county, was instantly killed by falling rock at the face of his room. He leaves a widow dependent.

January 15, 1904, George Jasinski, miner, aged 35 years, single, employed in the Pawnee mine of the Kellyville Coal Co., Grape Creek, Vermilion county, was instantly killed by falling rock in his room. Deceased was leaning over the front end of the car, which he had just commenced to load, when a mass of rock fell, and crushed him.

January 30, 1904, Max Pouse, miner, aged 26 years, single, in the employ of the Latham Coal Co., Lincoln, Logan county, was instantly killed by flying coal from a shot. The accident happened about 4:15 p. m., as all the firing is done at quitting time in this mine; the men also work single. From the appearance of the room afterwards, there had been two shots fired; from the position of the body, when found, the deceased must have been standing directly in front of the shot when it exploded, as he was lying on his back, his breast crushed, and his collar bone and one arm broken; his face was also cut and bruised with the fine coal, and the back of skull crushed. His body was lying at a distance of about 20 feet from the face of the room. Pouse had been in this country about eight months, and leaves a dependent mother in Germany.

February 10, 1904, Charles Darges, miner, aged 40 years, married, was fatally injured by falling rock at the face of his room in mine No. 3 of the Kellyville Coal Co., at Westville, Vermilion county. He died from the injuries received six days afterwards, leaving a widow and one child.

February 13, 1904, Mike Wornotski, miner, aged 35 years, married, was killed instantly at the Kellyville Coal Co., mine No. 3, Westville, Vermilion county. Deceased was drawing pillars on the seventh northwest entry; he attempted to wedge down a small piece of loose rock, but failed; he went to work under the rock, when it fell on him with the result as stated. He leaves a widow and one child.

February 22, 1904, G. W. Lee, miner, aged 26 years, single, employed at the Kellyville Coal Co., No. 4 mine, Westville, Vermilion county, was instantly killed by flying coal from a shot. Deceased and his uncle, Chas. Bonnett, with whom he worked, had prepared four shots, two of which they fired with squibs, and two with fuse; the shots with squibs were exploded and the men returned to light the fuse of the other two shots; one of these shots had exploded. They were in doubt as to the proper lighting of the other fuse, and returned to the room; when near the face of the second shot exploded, a piece of the flying coal striking Lee in the forehead with the result as stated.

February 26, 1904, William Green, driver, aged 21 years, married, in the employ of the Westville Coal Co., at mine No. 1, South Westville, Vermilion county, was instantly killed by a loaded pit-car. Deceased had brought his trip out to the parting, from which place the motor takes the cars to the bottom of the shaft. Green was walking in front of the cars when by some means he slipped and fell, the wheels passing over his neck. He leaves a widow.

March 9, 1904, James Rimkis, miner, aged 38 years, married, in the employ of the Kellyville Coal Co., at mine No. 3, Westville, Vermilion county, was injured by flying coal from a shot. He died from the injuries four days afterwards. Deceased was standing in front of his own room on the entry when the shot went off. He leaves a widow and one child in the old country.

March 17, 1904, Gust Erricson, miner, aged 58 years, married, in the employ of the McLean County Coal Co., Bloomington, McLean county, was almost instantly killed by being run over by empty pit-cars. In this mine there is tail rope haulage; and for a distance of 3,000 or 4,000 feet there is a double track, with a separate rope for each track; Erricson having finished his day's work, had started to walk to the shaft bottom; on his way he was overtaken by the loaded trip in the middle of which was an empty car in which some men were riding to the bottom. It appeared from the evidence at the coroner's in-

quest that Erricson attempted to get into that car when he was struck by the empty trip, which was passing on its way inside, and knocked under the cars. He died in ten or fifteen minutes after being taken from under the cars. He leaves a widow and four grown children.

March 23, 1904, Claude Wolf, trapper, aged 16 years, employed by the Latham Coal company, Lincoln, Logan county, was fatally injured by a loaded pit-car running over him, from the effects of which he died four hours afterwards. The driver had stopped his mule at the door to fill his lamp with oil; while doing so the mule started and the boy thinking he was going to run away, jumped on the seat to stop the mule. There being a down grade at that place and the cars running rather fast the boy became frightened, lost his light and jumped from the car to the side; the first car passed him, when he either stepped or fell between the cars, the last one passing over him with the above result.

April 27, 1904, Charles Margus, driver, aged 24 years, single, employed in the Kellyville Coal company's mine No. 3, Westville, Vermilion county, was instantly killed by being crushed between an empty pit-car and the coal rib. Deceased was riding on the front end of the empty car when the mule came to the entry, into which it should have turned; he continued on the straight road; the car, however, took the switch and was pulled off of the track crushing the driver as stated. Margus was not a regular driver.

May 11, 1904, Joseph Lecowieys, timberman, aged 27 years, married, employed in the Kellyville Coal company's mine No. 2, Kellyville, Vermilion county, was instantly killed by falling rock. Deceased was breaking up some rock, which had fallen on the fourth north entry when a mass of rock eight feet long, four feet wide and eighteen inches thick, which he had failed to secure, fell on him with the result as stated. He leaves a widow and two children.

May 12, 1904, Felix OPOCHINSKI, miner, aged 29 years, single, employed in the mine at Fairmount, Vermilion county, operated by the Consolidated Coal company, was instantly killed by falling rock at his working place.

June 21, 1904, Robert Edwards, miner, aged 50 years, married, employed by the Kellyville Coal company at mine No. 2, Kellyville, Vermilion county, was instantly killed by the explosion of powder, while attempting to force the charge back that had stuck in the drill hole; he used an iron tamping bar, which evidently produced a spark, igniting the powder. He leaves a widow and two children.

June 25, 1904, Theodore Bartrz, miner, aged 28 years, married, employed at the Westville Coal company's mine No. 1, Westville, Vermilion county, was fatally injured by falling rock in the face of his working place. He died while being taken to the hospital. He was a widower and left one child.

June 28, 1904, Benjamin Rhodes, sinker, aged 32 years, married, and Wilse Reed, sinker, aged 26 years, single, employed by the Kirksville Coal company, Kirksville, Moultrie county, were killed by falling down the shaft being sunk at that place. One peculiarity about this accident is to report men being killed in a county that has never produced any coal, nor ever appeared among coal producing counties in the reports. Rhodes and Reed, both sinkers, had come out of the shaft after lighting a shot; after the shot had exploded they entered the bucket to descend into the shaft; just as they got below the surface the hook on which the bucket was hung broke, precipitating them to the bottom, a distance of about 100 feet. Rhodes was killed instantly and Reed died about five hours after the accident occurred. The men were residents of Shelbyville, Shelby county. Rhodes left a widow and five children.

In conclusion I desire to acknowledge the valuable assistance rendered by the several county mine inspectors of this district.

All of which is respectfully submitted,

THOMAS WEEKS,

State Inspector of Mines, Fourth District, Bloomington.

Fatal Casualties—Fourth District—July 1, 1904.

Date.	NAME.	Age.	Occupation	Married.	Widow.	Children.	Single.	Persons dependent.	Cause of accident.
1903.									
July 10	John Jones.	38	Miner.	1	1	...	...	...	1 Falling rock..
July 16	Henry Busiere, Sr.	48	Miner.	1	1	3	...	...	6 Falling rock..
July 18	John Ray	30	Miner.	1	1	2	...	...	3 Falling rock...
Aug. 13	John Lane	21	Breakman.	...	...	...	1	...	Run over by R. S. cars..
Sept. 2	Wm. Bltof.	27	Miner....	...	...	...	1	...	Falling rock..
Nov. 17	Theobald Young ..	33	Laborer..	1	1	3	...	...	4 Falling rock..
Nov. 22	John Gedvilar	23	Miner.	...	...	...	1	...	Flying coal
Dec. 9	Allen Cox	54	Weighman	1	1	8	...	...	7 Roller screen
Dec. 19	Charles Yodalis ..	35	Miner.	1	1	2	...	...	3 Falling rock.
Dec. 21	Daniel Craig	5	Engineer.	1	...	4	...	...	4 Haulage rope.
Dec. 26	Sam'l Edgar Shadden	35	Ass't cager	1	1	5	...	...	6 Falling car of coal from cage
1904.									
Jan. 9	Ori Osborn	25	Driver	...	...	...	1	...	Pit car..
Jan. 12	Joe Glaye	55	Miner	1	1	3	...	...	4 Falling rock..
Jan. 15	Geo Gasinski....	35	Miner.....	...	...	...	1	...	Falling rock..
Jan. 30	Max Pouse	26	Miner.	...	...	...	1	...	1 Flying coal
Feb. 10	Charles Dargen ..	40	Miner.	1	1	2	...	...	3 Falling rock.
Feb. 13	Mike Wornotski ..	35	Miner.	1	1	1	...	...	2 Falling rock..
Feb. 22	G. W. Lee	28	Miner.	...	...	...	1	...	Flying coal.
Feb. 26	William Green ..	21	Driver	1	1	...	...	...	1 Pit car
Mar. 9	James Rinkis	38	Miner.	1	1	2	...	...	3 Flying coal..
Mar. 17	Gust Harricson.	58	Miner	1	1	4	...	...	1 Pit car.
Mar. 23	Claude Wolf	16	Trapper .....	...	...	...	1	...	Pit car.
April 27	Charles Margus....	24	Driver	...	...	...	1	...	Pit car.
May 11	Joseph Lecowicys.	27	Laborer.....	1	1	1	...	...	2 Falling rock..
May 12	Felix Opochinski	29	Miner.	...	...	...	1	...	Falling rock.
June 21	Robert Edwards.	50	Miner	1	1	2	...	...	1 Premature blast.
June 25	Theodore Barty....	45	Miner.	...	...	...	1	...	Falling rock..
June 28	Ben Rhodes	32	Sinker	1	1	5	...	...	6 Falling down shaft
June 28	Wilse Reed	26	Sinker	...	...	...	1	...	Falling down shaft
Total 29				17	16	49	12	58	

capitulation of Fatal Casualties—Fourth District—1904.

Place.	No.	Occupation.	No.	Nature of Casualty	No.	Colliery.	No.
Upton	1	Miners ...	17	Falling rock. ...	13	Consolidated Coal Co.	1
"	4	Brakeman	1	Falling cage	1	Kelly's No. 2	2
Mont	1	Laborers.....	2	Falling down shaft	2	Kelly's No. 3	7
Reek	1	Weighman	1	Flying coal	4	Kelly's No. 4	4
le	1	Engineer	1	Haulage rope ...	1	Kelly's No. 5	1
"	2	Cage Ass't.	2	Pit car	5	Kirksville	2
ua	1	Drivers..	3	Premature blast	1	Latham Coal Co	2
d	1	Trapper	1	Roller screen	1	Missionfield	1
"	1	Sinkers.	2	Run over, R.R. cars	1	Muswequa C. M. Co.	1
lle	2					Pawnee	1
lle	1					Pana Coal Co.	2
"	1					McLean county C. Co.	1
le	11					Sp'ghd C. M. Co., No. 6	1
						Westville, No. 1	3
1.....	29		29		29		29

Non-Fatal Casualties—Fourth District—July 1, 1904.

Date.	NAME.	Age.	Occupation.	Residence. (Town.)	Married.	Single.	Children.	No. persons dependent.	Character of injury and cause of accident.	Time lost— days.
1903										
July	5 Ed. Trooper.	21	Driver.	Grapp Creek		1			Arm broken; falling rock	57
	20 Tony Hauser.	32	Rockman	Westville	1				Foot crushed; falling rock, amputated	40
	21 Mike Michel.	28	Miner	Westville	1		22		Hand broken; falling rock	90
	30 Anton Butkovic.	42	Miner	Bloomington	1		8		Ankle dislocated; falling coal	90
Aug.	7 Thos. Moran	25	Driver	Assumption	1		1		Heel mashed; pit car	150
	8 James Hart	45	Teamster	Oakwood	1				Hand cut	40
	11 Wm. Owens	25	Driver	Himrod	1				Collar bone broken; pit car	42
	19 Thomas Farnand	37	Driver	Himrod	1		2		Leg broken; falling slate	42
	24 H. Skinworth	27	Driver	Himrod	1				Head injured; falling rock	34
Sept.	2 Lary Pir	17	Miner	Assumption	1				Leg injured; falling rock	60
	8 B. Cartelle	48	Miner	Roanoke	1		2		Collar bone fractured; falling coal	32
	9 George Hoff.	21	Miner	Georgetown	1		1		Leg broken, badly bruised; falling rock	50
	13 James Jennings.	30	Driver	Colfax	1				Body bruised; pit car	30
	18 Harve Hill	40	Miner	Catlin	1		3		Ankle injured; falling slate	30
	19 William Hilgia	24	Miner	Danville	1				Leg broken; falling rock	180
	21 E. Garr son	30	Trimmer	Taylorville	1		1		Arm broken; falling off elevator	40
	23 Joseph Rauty	18	Miner	Fairmount	1				Foot broken; falling rock	30
	23 Louis Yourkensky.	48	Miner	Kelleyville	1		2		Arm broken; falling coal	90
	24 John Petorsky.	21	Miner	Westville	1				Foot broken; falling rock	50
	26 William C. Jones	52	Miner	Taylorville	1		2		Body injured; falling coal	90
Oct.	1 D. Bridgewater	48	Rockman	Westville	1		4		Body bruised; falling rock	90
	2 William Robinson	29	Miner	Danville	1		1		Head injured; falling rock	30
	6 Ed. Wingfield	35	Miner	Cat in	1				Hips bruised; falling slate	45
	10 Lewis Rodgers	46	Timberman	Westville	1				Hips and back injured; falling rock	52
	19 Thomas Green	25	Rockman	Fairmount	1				Shoulder and hand injured; falling rock	35
	24 Thomas Jonchak.	30	Miner	Bloomington	1		2		Leg broken; falling rock	90
	26 Richard Barry	35	Timberman	Lincoln	1		7		Leg broken; falling slate	90
	39 Ura Felsner	32	Miner	Danville	1		2		Back injured; falling rock	90
Nov.	29 William Humble	47	Miner	Danville	1		3		Back injured; falling rock	90
	4 William Schlerch	22	Driver	Himrod		1			Hips injured; pit car and door	40
	10 John Schlepaus	30	Miner	Westville		1			Body injured; falling rock	30
	11 John Marulis	32	Miner	Westville		1			Body injured; falling rock	35
	11 Tony Kamiske	23	Miner	Fairmount		1			Body injured; falling rock	90
	13 Charles Pichraus	38	Miner	Grape Creek		1			Thumb cut off; by ax	30
	17 John Finnetrick	19	Dr ver.	Pana		1			Body injured; falling rock	42
	18 Geo. Bromley, Sr	57	Engineer	Richland	1		3		Spine injured; falling rock	42
									Shoulder dislocated; falling tipples	45

Non-Fatal Casualties—Concluded.

Date.	NAME.	Age.	Occupation.	Residence. (Town.)	Married.	Single.	Children.	No. persons dependent.	Character of Injury and Cause of Accident.	Time lost— days.
April	4 David James	41	Companyman	Danville		1			Foot injured, falling prop	30
	5 John Gieona	37	Miner	Westville		1			Leg broken, falling rock	37
	11 George Songer	33	Miner	Richland			3	4	Arm broken, body injured, flying coal	37
	11 Charles Swanson	40	Miner	Danville			5	6	Ribs broken, body injured, flying coal	30
	11 Anton Dempine	46	Miner	Pana			3	4	Foot mashed, falling coal	30
	22 Pleet Buhrdis	37	Laborer	Farmount		1			Head injured, falling rock	30
	24 F. C. Powers	30	Miner	Georgetown				1	Face and hands burned, powder explosion	40
	24 William Goss	28	Miner	Westville		1			Face and body burned, powder explosion	30
	28 Edward Pope	28	Miner	Pana			3	4	Ribs broken, falling coal	30
	28 William Green	42	Miner	Danville			2	3	Leg injured, falling rock	30
May	30 Charles Duncan	24	Driver	Georgetown				1	Back injured, pit cars	30
	3 James White	19	Driver	Pana		1			Kidneys ruptured, kicked by mule.	30
	4 Batista Cavette	17	Miner	Westville		1			Leg broken, falling rock	30
	5 Henry Bush	18	Miner	Westville		1			Hand and arm injured, pit cars	30
	10 James Thompson	44	Miner	Himrod		1	1	1	Collar bone broken, mule falling on him	30
	16 Erzell Coffey	23	Driver	Danville					Finger cut off, pit cars	30
	16 Joseph No. ngatis	40	Miner	Westville		1	3	4	Leg broken, falling rock	30
	23 Joseph Shultz	45	Miner	Moweaqua		1	5	6	Leg injured, falling coal	30
	24 Clyde Froud	20	Miner	Taylorville		1			Shoulder and legs injured, falling coal	30
	25 William Clark	22	Driver	Himrod				1	Ribs fractured, falling rock	30
June	27 Louis Nelson	40	Miner	Westville		1			Back injured, falling rock	30
	3 Albert McMaster	30	Miner	Kellyville			1	2	Leg broken, flying coal	30
	8 Bird Peirce	26	Driver	Danville		1	1	2	Arm broken, pit cars	30
	10 Edward Shepard	30	Driver	Grape Creek				1	Arm broken, pit cars	30
	11 L. Greensavage	23	Miner	Westville		1		1	Back injured, falling rock	30
	13 William Cooper	28	Miner	Danville			1	2	Back injured, falling rock	30
	Totals.				63	43	141	206		

• Not recovered nor working July 1, 1904.

Total number of men injured	111	Total days lost by men recovered	5,731
Not recovered nor working July 1, 1904	12	Average days lost by men recovered	51
Number recovered July 1, 1904	99		

Distribution of Non-Fatal Casualties—Fourth District—1904.

Location.	No.	Occupation.	No.	Cause of accident.	No.	Colliery.	No.
Uniontown	2	Cager	1	Axe	1	Assumption Coal Co.	2
.....	9	Carpenter	1	Drill	1	Bloomington Coal Co.	1
.....	4	Dayman	1	Falling coal	18	Christian Co. Coal Co.	2
.....	2	Drivers	21	Falling cage	1	Citizens Coal Co.	4
.....	17	Engineers	2	Falling mule	1	Colfax Coal Co.	2
.....	4	Laborers	3	Falling prop	1	Decatur Coal Co.	4
.....	7	Machine run'r	2	Falling rock	47	Economy Coal Co.	2
.....	3	Miners	68	Falling slate	7	Electric Coal Co.	1
.....	5	Rockmen	3	Falling tippie	1	Fairmount Coal Co.	7
.....	8	Teamster	1	Flying coal	3	Georgetown Coal Co.	1
.....	5	Timbermen	3	Kick of mule	1	Himrod Coal Co.	16
.....	6	Trappers	2	Pit cars	21	Jones & Adams C. Co.	4
.....	1	Trimmer	1	Powder explosion	4	Kellyville Coal Co.	30
.....	1			Shot explosion	1	Latham Coal Co.	2
.....	6			Smoke	1	McLean Co. Coal Co.	8
.....	2			Steam	1	Moweaqua Coal Co.	1
.....	1			Not stated	1	Oakwood Coal Co.	1
.....	6					Pawnee Coal Co.	3
.....	22					Penwell Coal Co.	4
.....						Roanoke Coal Co.	1
.....						Sp'gfield Coal Min'g Co.	4
.....						Springside Coal Co.	4
.....						Westville Coal Co.	7
Total	111		111		111		111

Showing the Nature of Injuries, Number of Persons Injured, Dependents, Time Lost, with Averages and Percentages—Fourth District—1904.

NATURE OF INJURIES.	Number.	Married.	Single.	Dependents.	TIME LOST.		Per cent of injuries.
					Total days.	Average days.	
Dislocated	1	1	2	0	90	90	.90
Injured	1	1	1	4	30	30	.90
Open	8	6	2	14	402	50	7.21
Injured	15	11	4	35	621	41	13.51
Injured	9	2	7	20	371	41	8.11
Open broken	5	2	3	4	267	57	4.50
Out	1	1	1	3	45	45	.90
1 hands burned	2	1	1	1	70	35	1.90
Cut off	1	1	1	1	42	42	.90
Open	7	3	4	6	300	43	6.31
Injured	1	1	1	1	38	38	.90
Open	1	1	1	3	40	40	.90
Injured	4	2	2	5	156	39	3.61
Injured	5	2	3	5	154	31	4.51
Washed	1	1	1	2	150	150	.90
1 backs injured	3	3	1	10	112	37	2.70
Injured	4	1	4	1	213	53	3.60
Ruptured	1	1	1	1	.....	.....	.90
Open	21	12	9	38	1,746	83	18.92
Injured	5	4	1	11	184	37	4.51
Injured	2	1	2	1	159	79	1.80
Open	6	6	1	27	240	40	5.41
1 dislocated	1	1	1	1	45	45	.90
1 injured	3	1	2	8	80	27	2.70
Injured	1	1	1	1	43	43	.90
Cut off	1	1	1	1	60	60	.90
Off	1	1	1	1	53	53	.90
Totals, averages and percentages	111	63	48	208	5,731	58	100.00

Christian County—Fourth District—1904.

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE.				
			Total.	Mine run.	Lump.	Egg.	Net
SHIPPING MINES.							
1	Springfield C. & M. Co., No. 6	Taylorville	208,892	107,168	76,247		26
2	Christian Cn. C. Co.	Taylorville ..	188,113	104,171	59,066		1,307
3	Penwell C. M. Co., Penwell ..	Pana	156,267	28,873	48,142	8,555	24,205
4	Newbent Coal Co., No. 2	Pana	113,977	22,795	40,040	5,206	10,471
5	Pana Coal Co., No. 1	Pana	110,513	9,106	46,690	115	13,49
6	Manuf'rs Fuel Co., Springside...	Pana	110,303	110,503			
7	Assumption C. & M. Co., Assum'n	Assumption	96,534		46,677		19,837
8	Edinburg Coal Co., Edinburg	Edinburg	1,886		1,886		
Totals			986,685	382,616	318,748	13,876	75,998

Mines in 1903, 8.

Mines in 1904, 8.

Edgar County—Fourth District—1904.

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE.				
			Total	Mine run.	Lump.	Egg.	Nut.
LOCAL MINE.							
1	John Witte Coal Co., No. 1	Paris, Ill., R. R. No. 11	6,022	3,022	2,300	.....	.....

Mines in 1903, 0.

Mines in 1904, 1.

Christian County—Fourth District—Concluded.

IS.	Slack or waste.	Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
			Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
	10,477	\$227,560	180	97	277	140,460	41,990	15,965	10,477	220	208,892	1
	3,127	204,164	130	74	204	175,825	...	9,159	3,127	264	135,484	2
	21,203	151,379	100	75	236	125,960	9,217	12,109	8,981	170	149,159	3
	14,102	99,863	138	72	310	108,677	...	...	7,300	125	113,977	4
	18,852	88,242	115	62	177	59,918	25,830	8,905	12,960	118	110,513	5
	...	119,343	100	71	171	101,435	...	2,112	4,958	192	110,503	6
	9,263	145,399	129	62	191	76,463	...	10,858	9,163	250	96,534	7
	...	3,772	8	3	11	...	...	1,365	521	90	1,886	8
	83,024	\$1,039,522	960	516	1,476	786,758	80,037	60,403	59,487	188	926,928	

TE—Price paid for hand mining for seven shipping mines from July 1, 1903 to April 1, 05; from April 1, 1904 to July 1, 1904, \$0.52; one shipping mine from July 1, 1903 to April 1, 11½; from April 1, 1904 to July 1, 1904, \$0.68½; average price for year, \$0.5397 per ton; average price paid for machine mining, shipping mines, \$0.3688 per ton.

Edgar County—Fourth District—Concluded.

IS.	Slack or waste.	Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
			Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
	700	\$7,753	8	4	13	...	...	5,322	700	230	6,022	1

TE—Price paid for hand mining, \$0.55.

Logan County—Fourth District—1904.

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE—				
			Total.	Mine run.	Lump.	Egg.	Nut.
SHIPPING MINES.							
1	Latham Coal Co., north mine.....	Lincoln	230,099	180,000	20,000	2,000	3,099
2	Citizens' Coal Min. Co., E. shaft..	Lincoln	105,880	39,647	43,762	.....	6,290
3	Lincoln Coal Co., No. 1	Lincoln	71,174	71,174	.....	.....	.....
4	Home Coal Co	Mt. Pulaski ...	11,851	.....	7,111	1,185	1,185
Totals			419,004	290,821	70,873	3,185	10,594

Mines in 1903, 4.
Mines in 1904, 4.

Macon County—Fourth District—1904.

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE—				
			Total.	Mine run.	Lump.	Egg.	Nut.
SHIPPING MINES.							
1	Decatur Coal Co.....	Niantic	39,929	2,366	28,661	.....	5,715
2	Decatur Coal Co., No. 1	Decatur	39,445	9,150	23,640	.....	3,050
3	Manufact'ers & Con. C. Co., No. 1	Decatur	26,824	10,167	10,672	1,471	.....
Totals			106,198	21,683	62,973	1,471	8,765
LOCAL MINE.							
1	Decatur Coal Co., No. 2.....	Decatur	45,136	8,060	28,056	.....	4,800
Total—4 mines.....			151,334	29,743	91,029	1,471	13,655

Mines in 1903, 3.
New mines, 1.
Mines in 1904, 4.

Logan County—Fourth District—Concluded.

Tons.	Slack or waste.	Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
			Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
4,000	4,000	\$181,834	200	100	300	208,099	.....	11,000	13,000	228	230,099	1
1,201	1,200	112,285	100	53	153	62,333	21,616	13,639	8,292	212	105,880	2
790	1,580	76,868	95	54	149	58,274	1,800	7,000	4,100	115	71,174	3
		20,285	25	13	38	1,541	.....	8,636	1,674	220	11,851	4
811	6,780	\$391,222	420	220	640	328,347	23,416	40,275	27,066	194	419,004	

NOTE.—Price paid for hand mining two mines, from July 1, 1903, to April 1, 1904, \$0.59; from April 1, 1904, to July 1, 1904, \$0.56; the other two mines paid for the year \$0.59 and \$0.74½. Average price for year, \$0.5883.

Macon County—Fourth District—Concluded.

Tons.	Slack or waste.	Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
			Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Total consumed or wasted at the mine.			
197		\$52,939	35	16	51	32,391	.....	7,538	.....	220	39,929	1
606		70,681	55	22	77	20,000	.....	19,445	.....	240	39,445	2
514		49,454	20	13	33	524	.....	23,800	2,500	288	10,288	■
306		\$179,054	120	61	181	52,915	.....	50,783	2,500	249	89,642	
130		\$87,870	70	35	105	.....	.....	45,136	.....	250	45,136	1
186		\$286,924	190	96	286	52,915	.....	95,919	2,500	250	134,778	

NOTE.—Average price paid for hand mining, shipping mines, \$0.645; 10,288 tons mined by machine mining, \$0.54, price paid for hand mining, local mines, \$0.70 per ton.

McLean County—Fourth District—1904.

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINES.				
			Total.	Mine run.	Lump.	Egg.	Nut.
SHIPPING MINES.							
1	McLean County Coal Co. No. 1..	Bloomington .	150,000	15,000	100,000	4,000	8,000
2	Colfax Coal Co., No. 1.....	Colfax.....	42,966	16,639	11,448	4,705	.....
3	Consumers' Coal Co., No. 1.....	Chenoa.....	20,000	3,000	8,000	.....	4,000
4	Colfax Cöoperative Co., No. 1....	Colfax.....	5,174	4,334	620	.....	.....
Totals.....			218,140	38,973	120,068	8,705	12,000

Mines in 1903—3.
New mines—1.
Mines in 1904—4.

McLean County—Fourth District—Concluded.

Tons.	Slack or waste.	Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
			Average number of miners.	All other employes.	Total	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade	Tons consumed or wasted at the mine.			
600	7,000	\$219,500	200	93	293	30,000	35,000	60,000	25,000	275	150,000	1
174		56,852	64	28	92	30,000	6,889	4,000	1,999	250	42,988	2
600		31,800	20	12	32	4,500		14,000	1,500	250	20,000	3
220		6,962	.....	.....	.....	3,183	1,161	820	210	.....	5,174	4
394	7,000	\$315,104	284	133	417	67,782	43,020	78,689	28,649	258	218,140	

NOTE—Price paid for hand mining, McLean County Coal Co., from July 1, 1903 to April 1, 1904, \$0.87; from April 1, 1904 to July 1, 1904, \$0.84, lower seam. From July 1, 1903 to April 1, 1904, \$0.77, from April 1, 1904 to July 1, 1904, \$0.74, upper seam. These prices not considered taking average price for county.
 Colfax Coal Co., and Colfax Cooperative Coal Co.—From July 1, 1903 to April 1, 1904, \$0.75; from April 1, 1904 to July 1, 1904, \$0.56. Consumers Coal Co., \$0.67. Average price hand mining, \$0.6096 per ton.

Shelby County—Fourth District—1904.

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE-				
			Total.	Mine run.	Lump.	Egg.	Nut.
SHIPPING MINES.							
1	Moweaqua C. M. & Mfg. Co. No.1	Moweaqua	109,192	21,717	40,467	14,231	10,582
2	Century Coal Co., No. 1.....	Tower Hill....	10,000	10,000	.....	.....	.....
Totals.....			119,192	31,717	40,467	14,231	10,582
LOCAL MINES.							
1	Widick Bros., No. 1.....	Findlay	5,231	.....	2,801	.....	2,430
2	John Anglin, No. 1.	Shelbyville....	2,800	.....	2,800	.....	.....
3	B. F. Stretch, No. 1.....	Shelbyville....	2,040	2,040	.....	.....	.....
4	Brophy Bros., No. 1.....	Shelbyville....	1,320	1,320	.....	.....	.....
5	W. F. Gallagher, No. 1.....	Mode	800	.....	800	.....	.....
6	Tinney Bros., No. 1.....	Shelbyville....	700	700	.....	.....	.....
7	M. R. Williams, No. 1.....	Shelbyville....	200	200	.....	.....	.....
8	J. A. Bowman, No. 1.....	Shelbyville....	80	80	.....	.....	.....
9	Charles Michalis.....	Fancher	50	.....	50	.....	.....
Totals.....			13,221	4,340	6,451	.....	2,430
Totals—11 mines.....			132,413	36,057	46,918	14,231	13,012

Mines in 1903—8.
New mines—3.
Mines in 1904—11.

Shelby County—Fourth District—Concluded.

TONS.		Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
Pea or screenings.	Slack or waste.		Average number of miners.	All other employees.	Total	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
9,837	12,358	\$146,872	125	57	182	71,654	20,724	10,592	6,222	228	88,470	1
		15,000	15	14	29	3,000	..	5,000	2,000	170	10,000	2
9,837	12,358	\$161,872	140	71	211	74,654	20,724	15,592	8,222	198	98,470	
		\$12,563	16	1	17	.....	.....	5,191	40	180	5,231	1
		7,700	16	2	18	.....	.....	2,800	.....	180	2,800	2
		5,610	8	1	9	.....	.....	2,000	40	275	2,040	3
		3,630	8	1	9	.....	.....	1,317	3	250	1,320	4
		1,800	8	1	9	.....	.....	800	.....	200	800	5
		1,750	6	8	9	.....	.....	675	25	140	700	6
		540	8	1	9	.....	.....	200	.....	135	200	7
		220	4	1	5	.....	.....	80	.....	30	80	8
		112	1	.....	1	.....	.....	50	.....	50	50	9
		\$33,925	73	11	84	.....	.....	13,113	106	191	13,221	
9,837	12,358	\$195,797	215	82	297	74,654	20,724	28,705	8,330	.....	132,413	

NOTE—Price paid for hand mining, shipping mines, from July 1, 1903, to April 1, 1904, \$0.52; from April 1, 1904, to July 1, 1904, \$0.56. Average price for year \$0.5325.
 Ten thousand tons, mined by the day.
 Price paid for machine mining, shipping mines, from July 1, 1903, to April 1, 1904, \$0.52; from April 1, 1904, to July 1, 1904, \$0.494. Average price for year \$0.514 per ton.
 Average price paid for hand mining, local mines, for year \$1.59.

Vermilion County—Fourth District—1904.

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF			
			Total.	Mine run.	Lump.	Eng.
SHIPPING MINES.						
1	Kellyville Coal Co., No. 3	Westville	442,028	442,028		
2	Westville Coal Co., No. 1	Westville	356,042	318,042	20,000	
3	Kellyville Coal Co., Himrod	Himrod	348,047	348,047		
4	Kellyville Coal Co., No. 4	Westville	336,810	336,810		
5	Kellyville Coal Co., No. 2	Kellyville	336,330	336,330		
6	Kellyville Coal Co., Pawnee	Westville	267,742	4,937	111,407	35.74
7	Kellyville Coal Co., No. 5	Westville	265,255	265,255		
8	Jones & Adams Co., No. 2	Catlin	135,671	26,102	82,946	
9	Economy Coal M. Co., Economy	Danville	103,068	103,068		
10	Consolidated Coal Co., Fairmount	Fairmount	94,118	14,010	65,050	
11	John O'Connell C. Co., Bluebird	Danville	54,893	50,255	2,562	
12	Electric Coal Co., Electric	Danville	51,384	49,384		
13	Cons. Coal Co., Missionfield	Missionfield	30,285	29,980		
14	Mauck Bros., Mauck	D'ville R.R.1	22,338	2,333	11,000	
15	Westville Coal Co., No. 2	Westville	20,000	20,000		
16	C. C. White, Brookside	Grape Creek	18,513	18,513		
17	Oakwood C. Co., Oakwood mine	Oakwood	11,000	2,000	7,000	
18	E. S. Gray, No. 4	Oakwood	10,000	10,000		
19	F. W. Davis, Muncie	Muncie	6,000	6,000		
20	Bunting Bros., Bunting	Grape Creek	11,897	1,111	6,312	
21	Star Coal Co., No. 1	Vandercook	9,500	9,500		
22	Geo. W. Fenwick	Danville	1,700	500	1,000	
23	Blue & Hall	Grape Creek	1,140	1,140		
24	Young & Ellis	Danville	567	3	276	
Totals			2,937,313	2,398,436	307,553	35.74

Vermilion County—Fourth District—Continued.

No.	Slack or waste.	Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
			Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
		\$433,188	310	147	457	428,026	6,002		8,000	253	442,028	1
		350,781	300	136	436	348,480		3,562	4,000	275	356,042	2
		341,086	290	145	435	343,047			5,000	280	324,047	3
		333,014	260	60	320	336,810			8,000	235	339,810	4
		329,604	220	131	351	316,450		13,880	6,000	250	336,330	5
16,003		278,342	203	97	302	251,739			16,003	256	267,742	6
		259,950	225	64	289	263,055			2,200	277	265,255	7
		160,984	165	82	247	180,848		632	4,371	225	185,671	8
		133,939	100	55	155	77,600	23,280		2,188	242	103,068	9
		103,585	70	37	107	88,364		2,630	3,234	171	94,118	10
		62,055	81	40	121	52,845		1,482	566	198	54,893	11
2,000		62,230	75	15	90	49,384			2,000	300	51,384	12
305		32,754		90	90	27,608			2,682	88		13
		25,666	18	6	24	11,200		10,833	300	235	22,333	14
		20,000	50	19	69	19,700			300	80	20,000	15
		17,588	16	4	20	18,333		100	50	152	18,513	16
1,000		13,650	10	4	14	9,000		2,000		200	11,000	17
		10,500	10	4	14	10,000				200	10,000	18
		6,600	23	11	34	2,000		3,700	300	180	6,000	19
		12,811	13	7	20	6,011		5,886		230	11,897	20
		11,875	20	4	24	9,500				175	9,500	21
		2,060	2	1	3	300		1,350	50	184	1,700	22
		1,197	2		2	1,040		100		150	1,140	23
40		736	2	1	3	40		517		120	557	24
19,348		\$3,004,245	2,467	1,160	3,627	2,801,075	29,282	46,682	60,274	215	2,883,028	

TK.—Price paid for hand mining, shipping mines: From July 1, 1903, to April 1, 1904, 52 cents; from April 1, 1904, to July 1, 1904, 52 cents.

average price for year, \$0.5425 per ton.

Price paid for machine mining, shipping mines: From July 1, 1903, to April 1, 1904, 43 cents; from April 1, 1904, to July 1, 1904, 45 cents.

average price for year, \$0.4725 per ton.

Vermilion County—Fourth District—Continued.

			OUTPUT OF MINE-				
Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	Total	Mine run.	Lump.	Egg.	Nut
LOCAL MINES.							
1	E. S. Gray, No. 3	Danville	48,000	48,000			
2	Western Brick Co	Danville	22,285	22,285			
3	Stansbury & Watkins, Stansbury & Watkins	Danville	12,800		8,400		
4	S. Parle, No. 2	Danville	12,000	6,000	3,000		
5	D. A. Jenkins	S. Danville	10,670		5,800		
6	Carter Bros., Carter's	D'nville, R.R. 8	5,800	1,400	3,300		
7	Danville Brick & Tile Co.	Danville	5,000	5,000			
8	France Bros., France's	Fairmount	5,000		4,000		500
9	W. C. Shafer, Shafer	Danville	4,640	200	2,300	640	200
10	Joe Mauck, J. Mauck's	Danville	3,985	3,985			
11	Miller & Spangler, Batestown shaft	D'nville, R.R. 1	3,827	3,827			
12	A. Jones & Son, No. 1	Catlin	3,541	237	2,137		616
13	James Thomas, No. 1	S. Danville	3,500	3,500			
14	M. C. Wilkinson, No. 1	S. Danville	3,500		2,500		500
15	Morin & Mobaker, No. 1	D'nville, R. R. 2	2,855		1,790		
16	John R. Colburn, Klondike	Vandercook	2,618	865	1,283		260
17	Hardy Harris Coal Co., No. 3	Fairmount	2,500		2,000		250
18	John Bryant, Bryant's	Grape Creek	2,400		1,800		
19	S. M. Hodge & Son, Hodge's	Danville	2,000	500	900		
20	A. H. Bonnett, Bonnett's	Collison R.R. 1	2,000		1,500		500
21	L. S. Miller, Strip bank	Grape Creek	1,900		1,700		
22	Joe Baler, Baler's	Danville	1,800		1,000		200
23	J. A. Humme, Humme's	D'nville, R.R. 1	1,650		1,600		100
24	William Stine, Stine's	Danville	1,588	1,588			
25	W. A. Shepherd, Shepherd's	Catlin	1,500		1,200		100
26	John Alldredge, Alldredge	Danville	1,400		1,000		250
27	Cantrall & Beeler, No. 1	D'nville, R.R. 1	1,300		1,000		100
28	Kurd & Webster, No. 1	Danville	1,028	154	452		225
29	Fred Brennerman, No. 1	Danville	875	25	400		50
30	Henry J. Dettman, Strip bank	Danville	860	580	300		
31	M. A. Fredrickson, Strip bank	Danville	800		400		250
32	Samuel Thomas & Bro, Slope	Catlin	800		500		200
33	Jacob Thompson, No. 2	Grape Creek	750		600		
34	C. S. Bryant, No. 1	Grape Creek	525		400		
35	Garrets & Co, Strip	Georgetown	502	472			
36	John Swenson, No. 1	Danville	360	360			
37	John Woodward, Woodward's	Oakwood	150		100		50
38	L. E. Baker, Baker's	Oakwood	200		200		
39	Wilkerson & Bro., No. 1	Grape Creek	60		40		
Totals			176,747	98,938	51,582	640	4,331
Total—83 mines			3,114,060	2,497,376	359,145	36,385	31,126

Mines in 1903, 60.

New mines, 5.

Abandoned 2.

Mines in 1904, 63.

Vermilion County—Fourth District—Concluded.

S.	Slack or waste.	Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
			Average number of miners.	All other employees.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
		\$50,400	40	10	50			48,000		200	48,000	1
		23,878	25		25				22,265		22,265	2
		19,320	18	4	22			12,600		200	12,600	3
		14,700	10	4	14			11,800	200	250	12,000	4
		14,243	16	6	22			10,670		280	10,670	5
		8,210	7	1	8			5,800		207	5,800	6
		5,000	5		5				5,000		5,000	7
400		7,845	8	2	10			4,500	500	200	5,000	8
		6,574	3	3	6			4,640		150	4,640	9
		4,981	8	3	11			3,985		100	3,985	10
		4,784	4	4	8			3,827		128	3,827	11
145		5,208	3	2	5			3,398	145	250	3,541	12
		3,500	3	4	7			3,500		275	3,500	13
500		5,275	4	3	7			3,000	500	200	3,500	14
1,065		3,558	4		4			2,855		182	2,855	15
		3,855	2		2			2,618		110	2,618	16
		3,875	5	3	8			2,500		300	2,500	17
000		2,400	3		3			1,800	600	200	2,400	18
		2,805	4	2	6			2,000		150	2,000	19
		2,875	10	5	15			2,000		150	2,000	20
200		2,175	4		4			1,900		100	1,900	21
		2,950	2		2			1,800		200	1,800	22
50		2,775	3	1	4			1,650		180	1,650	23
		1,588	2	1	3			1,588		160	1,588	24
200		1,930	2	2	4			1,300	200	200	1,500	25
		2,130	3	1	4			1,400		150	1,400	26
		2,025	5	4	9			1,300		150	1,300	27
		1,516	4	2	6			1,026		150	1,026	28
		1,012	3	1	4			875		150	875	29
		1,309	2		2			860		150	860	30
150		1,113	2		2			800		100	800	31
		875	2		2			800		125	800	32
150		788	2		2			600	150	180	750	33
125		525	1		1			525		150	525	34
30		596	3		3			472	30	100	502	35
		540	2		2			360		90	360	36
		237	2	1	3			150		80	150	37
		250	2		2			200		60	200	38
20		65	2		2			60		40	60	39
3,635		\$216,403	232	70	302			147,157	29,560	176	176,747	
22,983		\$3,220,648	2,699	1,230	3,929	2,801,075	29,282	193,839	89,864		3,069,775	

*E.—Average price paid for hand mining, local mines, for the year, \$0.551 per ton.
: tons mined by the day.

Woodford County—Fourth District—1904.

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE—				
			Total.	Mine run.	Lump.	Egg.	Nut.
	SHIPPING MINE.						
1	Roanoke Coal Mining Co., No. 1.	Roanoke	115,128	17,441	83,200	.....	1,085
	Totals .....	.....	115,128	17,441	83,200	.....	1,085

Mines in 1903, 1.
Mines in 1904, 1.

Woodford County—Fourth District—Concluded.

IN TONS.		Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
Pea or screenings.	Slack or waste.		Average number of miners.	All other employés.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
5,252	8,150	\$153,595	190	45	235	93,122	6,297	8,459	7,250	252	115,128	1
5,252	8,150	\$153,595	190	45	235	93,122	6,297	8,459	7,250	252	115,128	

NOTE.—Price paid for hand mining: From July 1, 1904, to April 1, 1904, 82 cents; from April 1, 1904, to July 1, 1904, 79 cents.
Average price for year, \$0.8125 per ton.

Recapitulation by Counties—

COUNTIES.	Number of shipping mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Christian	8	986,685	382,616	318,748	13,876	75,686	112,735	83,024	\$1,039,52
Logan	4	419,004	290,821	70,873	2,185	10,534	36,811	6,780	391,22
Macon	3	106,198	21,683	62,973	1,471	8,765	11,306	....	179,04
McLean	4	218,140	38,973	120,068	8,706	12,000	31,364	7,000	315,10
Shelby	2	119,192	31,717	40,467	14,231	10,582	9,837	12,368	161,82
Vermilion	■	2,937,313	2,398,438	307,533	35,745	26,789	149,440	19,348	3,004,26
Woodford	1	115,128	17,441	83,300	....	1,065	5,252	8,150	153,58
Totals and averages	46	4,901,680	3,181,689	1,003,882	77,213	145,441	356,775	136,660	\$5,244,63

Recapitulation by Counties—

COUNTIES.	Number of local mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Edgar	1	6,022	3,022	2,300	....	....	....	700	\$ 7,73
Macon	1	45,136	1,000	28,056	....	4,890	4,130	....	57,57
Shelby	9	13,221	4,340	6,451	....	2,430	....	....	23,95
Vermilion	39	176,747	98,988	51,592	640	4,381	17,611	3,635	216,43
Totals and averages	50	241,126	114,360	88,399	640	11,651	21,741	4,335	\$345,61
Totals, district— all mines	96	5,142,786	3,296,049	1,002,281	77,853	157,092	378,516	140,995	\$5,590,56

Whole number of mines reported in 1903, 87.

Number of new mines opened during year, 11.

Number of mines exhausted or abandoned during the year, 2.

Whole number of mines reported for 1904, 96.

urth District—1904—Shipping Mines.

EMPLOYEES.		DISPOSITION OF OUTPUT.					Average number of days in operation.	TONS MINED		PRICES PAID PER TON FOR—		Number of steam boilers.	Number of fans.
All other employes	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mines.	Tons sold to local trade.	Tons consumed and wasted at mines.			By hand.	By machines.	Hand mining.	Machine mining.		
30	516	1,476	786,758	80,087	60,403	59,487	188	928,928	59,757	\$0 560	\$0 387	37	7
20	220	640	328,247	23,416	40,275	27,066	194	419,004	.....	0 588	....	22	4
20	61	181	52,915	.	50,783	2,500	249	■,642	16,556	0 645	...	11	1
14	133	417	67,782	43,020	78,689	28,649	238	218,140	.....	0 610	.....	16	3
10	71	211	74,654	20,724	15,592	8,222	198	98,470	20,722	0 582	0 514	6	1
17	1,160	3,627	2,801,075	29,282	46,682	60,274	215	2,883,028	54,285	0 542	0 472	59	20
10	45	235	93,122	6,297	8,459	7,250	252	115,128	.....	0 812	.....	5	1
11	2,206	6,787	4,204,553	202,776	300,883	193,448	214	4,750,340	151,320	\$0 561	\$0 444	156	37

urth District—1904—Local Mines.

EMPLOYEES.		DISPOSITION OF OUTPUT.					Average number of days in operation.	TONS MINED		PRICES PAID PER TON FOR—		Number of steam boilers.	Number of fans.
All other employes	Total	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mines.	Tons sold to local trade.	Tons consumed and wasted at mines.			By hand.	By machines.	Hand mining.	Machine mining.		
9	4	13	.....	.....	5,322	700	230	6,022	.....	\$0 55	.....	1	1
10	35	103	.....	.....	45,136	.....	250	45,136	.....	0 70	.....	4	..
15	11	83	.....	.....	13,113	108	191	13,221	.....	1 59	.....	2	2
32	70	302	.....	.....	147,157	29,590	175	176,747	.....	0 551	.....	9	■
86	120	506	.....	.....	210,728	30,398	181	241,126	.....	\$0 637	.....	16	6
67	2,326	7,293	4,204,553	202,276	511,611	223,846	.....	4,991,496	151,320	.....	.....	172	43

FIFTH INSPECTION DISTRICT—1904.

TWENTY-FIRST ANNUAL REPORT.

Counties—Brown, Calhoun, Greene, Jersey, Macoupin, Montgomery, Morgan, Sangamon, Scott.

WALTON RUTLEDGE, *Inspector*, Alton.

HON. DANID ROSS,
Secretary, State Bureau of Labor Statistics, Springfield, Ill.

SIR—In compliance with the statute of the State, defining the duties of the State Inspectors of coal mines, I herewith submit the twenty-first annual coal report of the coal mines in the fifth inspection district, for the year ending June 30, 1904. A tabular statement is herewith given of the statistics of each county, showing the number of mines operated during the year, both shipping and local; the new and abandoned mines; the depth of coal below the surface with the geological number and thickness of the various coal seams; the number of miners and other employés working in the mines and on the surface; the total tonnage of all grades of coal; the average value of coal at the mines, and the aggregate value of the total product in the district, with the casualties in and around the mines, both fatal and non-fatal.

The following summary is given as a recapitulation of the principal facts, found in the schedules of the various counties:

Nunbr of mines.....	102
Number of new mines.....	14
Number of abandoned mines.....	13
Number of shipping mines.....	53
Number of local mines.....	49
Total output in tons (2,000 pounds).....	7,230,287
Tons of mine run coal.....	1,714,901
Tons of lump coal.....	3,555,651
Tons of egg coal.....	113,424
Tons of nut coal.....	219,322
Tons of screenings (pea coal),.....	1,475,977
Tons of slack or duff.....	200,972
Average value of mine run coal at shipping mines.....	\$1.07
Average value of lump coal at shipping mines.....	\$1.36
Average value of egg coal at shipping mines.....	\$1.29
Average value of nut coal at shipping mines.....	\$1.18
Average value of screenings at shipping mines.....	\$0.92
Average value of waste coal at shipping mines.....	\$0.61
Aggregate value of total product, all mines.....	\$7,594,886
Number of miners.....	6,365
Number of others underground.....	1,263
Boys underground.....	23
Employés above ground.....	9,141
Total number of employés.....	6,399
Tons loaded on cars for shipment.....	197,977
Tons supplied to locomotives at mines.....	423,511
Tons sold to local trade.....	200,000
Tons consumed or wasted at the mines.....	1,000
Average number of days in operation, shipping mines.....	1,000
Tons mined by hand.....	2,000
Tons mined by machines.....	2,000

f mines using coal cutting machines.....	16
f machines in use.....	156
f machines operated by compressed air.....	120
f machines operated by electricity.....	36
f fatal accidents.....	27
f non-fatal accidents.....	56
f tons mined to each fatal accident.....	269,640
f tons mined to each non-fatal accident.....	130,005
f boilers (horizontal) at the mines.....	219
f kegs of powder used in blasting coal.....	213,490
f kegs used for other purposes.....	55
f pounds of dynamite used at the mines.....	19,124
f mines using electric haulage.....	9
f mines using cable haulage.....	5
f electric motors in use.....	15

roduction, by counties, in the fifth district, with the increase or decrease for the years ending June 30, 1903, and June 30, 1904, is shown following table:

COUNTIES.	TOTAL OUTPUT IN TONS.		Increase.	Decrease.
	1903.	1904.		
.....	1,585	1,583	.....	2
.....	4,928	3,110	.....	1,818
.....	4,497	10,904	6,407	.....
.....	2,790	3,405	615	.....
.....	2,223,055	2,221,474	.....	1,581
ery	420,312	494,501	74,189	.....
.....	3,840	4,300	460	.....
.....	4,386,526	4,516,358	129,832	.....
.....	23,370	24,652	1,282	.....
.....	7,070,903	7,280,287	12,785	3,401

Total net increase..... 209,384 tons.

strict shows a net increase of 209,384 tons, which is largely due to on and Montgomery counties. Montgomery county shows an increase tons; Sangamon county an increase of 129,832 tons. Green, Jersey, and Scott each show a slight increase. Macoupin county shows a of 1,581 tons. The coal business has been very dull since April 1, any of the mines in the three counties, shipping coal, have only one day in the week.

NEW MINES.

; the year there have been nine new mines opened in this district, these are shipping mines; four in Macoupin county, and three in San-

eadbody Mining Co., Chicago, has opened out a new mine two miles Sherman, Sangamon county, on the line of the C. & A. railroad. The is six feet in thickness and is No. 5 of the general section. The ft is 10x20 feet in the clear and 201 feet deep; the air shaft is 10x15 e clear, and of the same depth. Five feet of the air shaft is parti- of one end for a stairway and escapement, leaving 100 square feet ion for air shaft. The tower and all screens and weigh house bear- built of steel, covered with galvanized corrugated iron. are two shaking screens and a weigh pan, also dump cages. The engine is double cylinder first motion; each cylinder is 22 inches in and 36 inches stroke; with a steel cone winding drum five and a half

to seven feet in diameter. There are four steam boilers, each with a capacity of 150 horse-power; each boiler is eight feet in diameter, and 17 feet long, with 72 four-inch flues.

The smoke stack is made of three-eighth inch steel and is 100 feet high; the engine and boiler houses are large and well arranged. They are built of brick with fire proof roofs supported by trusses; the floor of the boiler room is made of paving brick, and that of the engine room is concrete.

The ventilating fan is a Capell, $13\frac{1}{2}$ feet in diameter and seven and a half feet wide; its full capacity (without mine resistance) is reported to be 350,000 cubic feet of air per minute; the fan house is built of fire proof material.

A No. 1 high speed engine of 50 horse-power is geared direct to a 50 horse-power generator, giving electric light to the premises, and entries in the mine; ten arc lights are used on the surface. The office building at the mine is built of brick, 30x56 feet, and contains a fire proof vault 8x10 feet, a bath room is also connected with the office. All the company buildings on the premises are heated by steam and supplied with hot and cold water.

A hotel and other dwellings are erected near the mine; everything around the mine on the surface is put up very substantial and intended to be fire proof.

To handle the coal output economically, ample side tracks are provided and suitable scales are erected. The underground works are laid out on the most improved plan, and it is expected that the mine when it is opened out to its full capacity, will maintain an output of 2,000 tons per day.

The Chicago-Springfield Coal Co. has opened out a new mine on the line of the C. & A. railroad, two and one half miles north of the corporate limits of the village of Ridgley, Sangamon county; the plant is first-class in every particular. The hoisting and air shafts are each 225 feet deep. The coal seam is No. 5 of the general section, and is six feet thick.

The hoisting shaft is 8x10 feet in the clear and the air shaft is 8x20 feet; five feet of the air shaft is taken off of one end for a stairway and escape-ment.

The tower posts and screen bearing posts and flooring are all of hard pine; the screen housing and tower is covered with corrugated iron; the tower is 107 feet high.

The boiler house is built of brick with fire-proof roof, and concrete floor; only two boilers have been installed at this time, others will be put in when required; each boiler is 72 inches in diameter, and 18 feet long, with 64 four-inch flues; the boilers are connected by britching to a brick stack, 10x10 feet square at the base, and 100 feet high. The engine house is also built of brick, with a fire proof roof; the hoisting engine is double first motion, each cylinder is 20x36 inches with a straight drum six feet in diameter. The head sheaves are seven feet in diameter. Air signals are used in the hoisting shaft; dump cages, weigh pans, and shaker screens are used; the shaking sreens are seven feet wide and 42 feet long. There are four track scales, one on each loading track, each scale is 80 feet long; the side tracks are double on the north, and 3,800 feet in length, three tracks are on the south, 2,800 feet in length.

The fan at the air shaft is 22 feet in diameter and six feet wide, operated by an engine 12x28 inches, geared direct; the fanhouse is built of brick, and is intended to be fire proof. The washhouse provided is also built of brick, here the miners can change their clothes and wash after coming from the mine; the washhouse is ten feet wide and 60 feet long, properly drained, both hot and cold water are supplied.

A town site will soon be located, ten houses, with a hotel, have already been erected. The underground works are laid out on the most modern plan, and the coal will be worked on what is known as the panel system.

The office building at the mine is built of brick and is fire proof. The U. S. dial scale is used for weighing the miner's coal. When properly opened out this mine will have a large output.

The Tuxhorn Coal Co., Springfield, has opened out a new mine at Key, Sangamon county, on the C. H. & D. railroad, three miles east of the corporate limits of the city of Springfield. The main shaft is 220 feet deep, $8\frac{1}{2}$ x14 feet in the clear; the air shaft is 222 feet deep and $8\frac{1}{4}$ x14 feet in the clear; the feet is taken off of one end of the latter for a stairway and escape-ment.

ver and screen posts are hard pine, covered with corrugated iron; r is 66 feet high to the center of the head sheaves. The boiler and ouses are built of brick, with fire proof roofing; the buildings are ; there are four boilers, each 48 inches in diameter by 30 feet long (cylinder boilers), with an 80-foot smoke stack.

isting engine is double cylinder, first motion; each cylinder is 20 diameter, with a 36-inch stroke; the drum is straight and five feet ter. Dump cages with pan and shaker screens are used. The track 6 feet long with ample side-tracks. The coal seam is No. five of the section and is five feet nine inches thick at the bottom of the shaft. ilating fan is 15 feet in diameter within a brick fan house; the fan s geared direct to the fan shaft. The mine sump is made near the f the air shaft and the water is pumped up this shaft.

hole details of this plant are well laid out, both on the surface and ne. The coal will be worked on the panel system and the mine, ly developed, will have a large output.

oyal Colliery Co., Chicago, has opened out a new mine two miles the corporate limits of Virden, Macoupin county. The mine is con- a spur of the C. B. & Q. railroad. The main shaft is 302 feet deep 16 feet in the clear. The coal seam is No. five of the general section ven and one-half feet thick. The air shaft is 8x16 feet with five feet f of one end for a stairway and escapement. The tower is built of l is 98 feet high, covered with corrugated iron. The boiler and en- ses are built of brick, with fire proof roofing. There are only two ocated at present; two more will be put in when required. Those place are 84 inches in diameter and 18 feet long, with 72 four-inch h boiler is rated at 140 horse power. The smoke stack is 80 feet he hoisting engine is first motion, double cylinder, each cylinder hes and was built by the Litchfield Car & Machine company, Litch-

The shaking screens are eight feet wide by 42 feet long with dump l weigh pan, put in by Duncan Bros., Alton, Ill. The underground e laid out on the panel system and designed for a large output.

land Grove Coal company, Old Berlin, has sunk a new shaft two and miles north of Berlin, Sangamon county, near the track of the Wa- lroad. The shaft is 185 feet deep; the coal seam is five feet and six ick. Very little mining has been done so far. This will be a local some time. The company intends to have a spur run connecting the h the railroad.

uperior Coal company, Gillespie, has opened up two new mines in Ma- ounty, designated as Nos. 1 and 2. Mine No. 1 is two miles south- Gillespie and No. 2 is three and one-half miles south. Railroad con- are made to these mines by a branch road, known as the Macoupin ailroad, connecting at Greenridge with the C. & A. railroad, thence ossing the C. C. C & St. L. railroad at Gillespie and to the mines.

shaft is 348 feet deep and 9x17 feet in the clear, with two cageways chambers. The cageways are each seven feet wide; the pipe cham- feet four inches wide. The seam of coal is eight feet thick and No. general section, being equivalent to Mt. Olive and Staunton coal The tower is built of steel; the compressor, dynamo, engine and ouses are built of brick with slate roof; there are six boilers, each 60 diameter, by 18 feet long, with 60 four-inch flues, each rated at 100 wer. The hoisting engine is double first motion; each cylinder 24x36 with a seven foot straight drum; the ropes are one and three-eighth diameter; dump cages are used for hoisting; the screens are station- he coal from the mines will be consumed by the Chicago & North- railroad. The fan is 16 feet in diameter and five and one-half feet is a central disk fan; the fan house is fire proof. The underground e laid out on the improved plan. The coal will be mined and worked panel system. Fifteen miners' houses have been built at No. 1 mine ; No. 2. The No. 1 is a duplicate of the No. 2 mine.

al at these mines will be mined by the Ingersoll-Sergeant coal cut- ines. A large Ingersoll compound compressor has been installed at and air signals will be used. The towers and out-housing around

both shafts are all built of steel; ample side-tracks and scales have been put in. The company owns an extensive royalty of coal lands with a suitable tract of surface land at each mine and has plans now under way for sinking No. 3 mine. These mines in the future will have a large output when properly opened out.

The Kortkamp Coal company, Hillsboro, has sunk a new shaft two miles east of Hillsboro, Montgomery county, on the line of the C. C. C. & St. L. railroad, also connecting with the Frisco line to Chicago. The shaft is 500 feet deep, 8x15 feet in the clear; the tower is built of wood covered with corrugated iron. The boiler and engine house is built of brick, with fire proof roofing; only one boiler is placed at present, others will be put in as required. The boiler now in place is 72 inches in diameter by 18 feet long, having 70 four-inch flues; the hoisting engines are built with first motion, double cylinder, each 24x36 inches. Coal has not been shipped from the mine, as the shaft is only sunk through the coal. The air shaft is not yet finished; shaking screens and dump cages have been installed. A town site has been laid out and 18 houses have already been built. The coal seam is No. 5 and is seven and one-half feet thick.

The Consolidated Coal Co. of St. Louis, Mo., has opened out a new coal mine one and one-half miles west of Staunton, Macoupin county. This mine will be known as No. 14; connected with the mine will be a spur switch from the Wabash railroad. The main or hoisting shaft is 8 feet 10 inches by 15 feet 6 inches in the clear, and is 284 feet deep; the air shaft is of the same size, with five feet taken from one end for a stairway and escapement. The tower frames are of wood, covered with galvanized iron. The boiler, compressor, dynamo and engine houses are built of brick with fire proof roofing; there are four boilers, each 72 inches in diameter and 18 feet long. Each boiler is rated at 163 horse power. The hoisting engines are double first motion, each cylinder 24 inches in diameter with 36 inches stroke. An Ingersoll-Sergeant compressor has been put in, steam cylinder 18x24 inches. Dump cages and shaker screens have been put in. A large washery has been built with a Smith box-car loader. The coal seam is No. 5 of the general section, and is seven feet thick. The underground works are laid out with a view of having a large output when the mine is fully developed.

IMPROVEMENTS.

The Springfield Coal Mining Co. has built a brick blacksmith shop and office at its No. 3 mine at Starns, and has put in a new hoisting engine, double cylinder, first motion 20x36 inches. At its No. 4 mine, Black Diamond, a new tower has been erected, also screens and outhouses; a new fan 20 feet in diameter has been put in to take the place of the one destroyed by fire Sept. 27, 1903. The company has also put in a first motion engine, double cylinder 20x36 inches; two new dump cages and shaker screens. New track scales have been put in at the No. 5 mine (Iles Junction), also two new track scales at the No. 2 shaft at Riverton.

The Williamsville Coal company, Selbytown, has put in dump cages and screens; retimbered a portion of the hoisting shaft, improved the tower, and built a new stairway in the escapement shaft.

The West End Coal Co., Springfield, has put in a first motion engine, double cylinder 20x36 inches, and relaid the mine tracks with 35-pound rails, with a view of putting in an electric haulage motor in the near future.

The Chicago-Virden Coal Co. has retimbered a portion of its No. 2 mine at Auburn; also rebuilt a portion of the tower of that mine.

The Virden Coal Co. has put in a tight partition in their air shaft, with suitable doors at the top and bottom of the shaft to keep ice from the stairway in winter.

The Wilmington and Springfield Coal Co., Springfield, has installed a 20-foot fan at its air shaft, located about one mile east of hoisting shaft. The fan is run by an electric motor, power being supplied from a generator located at the Springfield Iron Co.'s plant.

The Consolidated Coal Co. of St. Louis, Mo., has made several improvements at its No. 7 mine, at Staunton, Macoupin county. A new tower has been

a tipple-house built, with self-dumping cages and shaker screens; feet in diameter has been put in. The mine tracks have been 30-pound rails. It is intended to introduce mechanical haulage. The power boilers have been installed.

Company's No. 8 mine, Mount Olive, Macoupin county, a new tower built, also a tipple-house with shaker screens and dump cages; three each 72 inches in diameter by 18 feet long, rated at 150-horse power, have been put in. The mine tracks have been relaid with 30-pound rails. A W. generator has been installed with two ten-ton electric line haulage.

No. 10 mine, Mount Olive, five new boilers have been put in, each 36 inches in diameter by 18 feet long, rated at 150-horse power. A compressor has also been installed, a steam cylinder 24 inches in diameter, a high pressure cylinder 16½ inches in diameter, and a lower pressure cylinder 26 inches in diameter.

Hillsboro Coal Co., Hillsboro, Montgomery county, has put in dump cages and shaker screens. The tower has also been improved.

Factors' Fuel Co., Nilwood, Macoupin county, has put in a new

CHANGES IN CORPORATE NAMES.

Mine at Ridgely, Sangamon county, formerly operated by the Re-land Steel Co., has changed and is now known as the Wilmington Coal Co.

er Coal & Coke Co., Nilwood, Macoupin county, has been changed to Factors Fuel Co.

ond Coal Co., Montgomery county, has been changed to the Miller

PROSPECTIVE MINES.

Consolidated Coal Co. of St. Louis, Mo., is sinking a new shaft two miles from Mt. Olive, Macoupin county. This mine, when completed, will be No. 15. A spur will be run from the Wabash railroad to the

Coal company is sinking a new mine near Cora station, Sangamon county, on the line of the C., P. & St. L. railroad, about eight miles north of Springfield.

omon, one of the late owners of the Black Diamond coal mine, is sinking a new shaft on the line of the C. & A. railroad, about four miles south of Auburn, Sangamon county.

FATAL ACCIDENTS.

Following is a detailed statement of the fatal accidents which have occurred in the coal district during the year ending June 30, 1904:

1903, Peter Bogards, miner, age 30 years, single, was burnt by an explosion of powder in the Chicago-Virden Coal company's mine No. 3, Chatham, Sangamon county. He died ten days afterward. He was making a candle when his lamp fell into the keg of powder.

1903, Frank Powers, miner, aged 30 years, single, was injured by a rock and clod at the working face of his room in the Victor Coal company at Pawnee, Sangamon county. He died Sept. 26, 1903.

1903, Albert Goekel, carpenter, aged 38 years, married, was injured from the roof of the boiler house, at the Consolidated Coal company's mine No. 6, Staunton, Macoupin county, dying the same day. He was 40 years of age and five children.

1903, William Davis, miner, aged 35 years, single, was killed by a rock while working in an air course in the Chicago-Virden Coal company at Chatham, Sangamon county.

1903, Steve Bolki, miner, aged 26 years, single, was injured by falling from the Chicago-Virden Coal company's mine at Chatham, Sangamon county, and died 14 days after the accident. His partner, Wm. Davis, was killed with him at the time of the accident.

Sept. 8, 1903, Frank Moloski, miner, aged 25 years, single, was injured by falling coal and clod at the working face of his room, in the Cantrall Coöperative Coal company's mine at Cantrall, Sangamon county. He died Sept. 23, 1903.

Oct. 3, 1903, Hugo Lorenz, miner, aged 21 years, single, was killed by falling slate at the working face of his room, in the Madison Coal company's mine No. 5, at Mount Olive, Macoupin county.

Nov. 27, 1903, James McClarnon, driver, aged 24 years, married, was killed by falling slate in the Capital Coöperative Coal company's mine at Springfield, Sangamon county. The mine car jumped the track, knocking out the props and cross bars, causing the slate to fall on him. He leaves a widow.

Dec. 12, 1903, Robert Bradley, driver, aged 38 years, single, was killed by being caught between a mine car and a prop in the Spaulding Coal company's mine No. 2 at Bissell, Sangamon county.

Dec. 12, 1903, Charles Hueston, machine helper, aged 36 years, married, was killed by falling clod at the working face, in the William Niel & Co.'s mine at Bunker Hill, Macoupin county. He leaves a widow and two children.

Dec. 17, 1903, Daniel Gordon, top boss, aged 34 years, married, was killed by being struck with a cage at the lower landing at the Springfield Coal Mining Co.'s No. 4 mine, Springfield, Sangamon county.

Jan. 5, 1904, Simon Carmody, miner, aged 70 years, married, was killed by a fall of top coal and slate, at the working face of his room in the Greenridge Mining Co.'s mine, Greenridge, Macoupin county. He leaves a widow and two children.

Jan. 9, 1904, Geo. T. Prince, shot firer, aged 58 years, married, was killed by being suffocated by after damp, produced by a windy shot, in the Victor Coal Co.'s mine at Pawnee, Sangamon county. He leaves a widow and two children.

Jan. 14, 1904, Thomas Cocks, top laborer, aged 27 years, single, was killed by being caught between coal cars on the surface, at the Consolidated Coal Co.'s mine at Mount Olive, Macoupin county.

Jan. 22, 1904, James J. Williams, miner, aged 45 years, married, was killed by a premature explosion in the Chicago-Virden Coal Co.'s No. 1 mine at Virden, Macoupin county. The company was experimenting with a new powder, which exploded while Williams was tamping the shot. He leaves a widow and two children.

March 1, 1904, Patrick Burns, miner, aged 50 years, married, was killed by a blast; he was drilling out a shot that had missed fire the day before: the drill probably struck some slate, igniting the powder, causing it to explode. This was in the Chicago-Virden Coal Co.'s No. 1 mine at Virden, Macoupin county. He died ten days after the accident, leaving a widow and two children.

March 23, 1904, Carl Struck, engineer, aged 40 years, married, was killed by becoming entangled in the machinery of the fan engine at the Sangamon Coal Co.'s mine Springfield, Sangamon county. He leaves a widow and one child.

March 24, 1904, Herman Haase, sinker, aged 26 years, married, was killed by falling from a temporary cage while putting in guides at the Consolidated Coal Co.'s mine No. 14, Staunton, Macoupin county. He leaves a widow.

March 31, 1904, Matthew Johnson, miner, aged 35 years, married, was killed by falling rock in the Virden Coal Co.'s mine at Virden, Macoupin county. He was working at a fire wall, when a piece of rock fell, striking his leg, throwing him over; his head struck a water barrel, causing his death. He leaves a widow and three children.

April 13, 1904, Joseph Ulchner, miner, aged 34 years, married, was killed by the explosion of a shot; deceased returned to examine a shot he supposed had missed fire. This accident occurred in the Trutter Coal Co.'s mine, Pleasant Plains, Sangamon county.

April 19, 1904, Henry Horrick, miner, aged 58 years, married, was injured by a premature blast in the Springfield Coal Co.'s mine No. 5, Springfield Sangamon county. He died May 3, 1904, leaving a widow and six children.

John Brown, miner, aged 53 years, married, was killed by falling coal at the working face of his room, in the Chicago, Wilmington & Vermillion Co.'s mine at Thayer, Sangamon county.

May 4, 1904, Henry Luck, miner, aged 58 years, single, was killed by a premature blast, in the Greenridge Mining Co.'s mine at Greenridge, Macoupin county.

May 17, 1904, John Sheppard, top laborer, aged 48 years, married, was killed by being caught in the screen machinery at the Capital Coöperative Coal Co.'s mine at Springfield, Sangamon county. He leaves a widow and six children.

May 24, 1904, Wm. Dungan, miner, aged 50 years, married, was injured by a premature blast, in the Jefferson Coal Co.'s mine at Springfield, Sangamon county, and died the next day. He leaves a widow and two children.

June 14, 1904, Pearl Beenblossom, trapper, aged 17 years, single, was killed by being struck by a lagging timber. The mine cars jumped the track, striking the lagging timber, forcing it on to the boy. He was at his trap door in the Litchfield Mining & Power Co.'s mine, Litchfield, Montgomery county.

June 15, 1904, John Ridlia, miner, aged 28 years, single, was killed by being crushed between mine cars in the Consolidated Coal Co.'s mine No. 7, at Staunton, Macoupin county.

Following will be found the regular tables for each county, also the tables of fatal and non-fatal accidents.

Respectfully submitted,

WALTON RUTLEDGE,
State Inspector of Mines, Fifth District, Alton.

Fatal Casualties—Fifth District—July 1, 1904.

Date.	NAME.	Age.	Occupation.	Residence (Town.)	Married.	Widow.	Children	Single.	Persons dependent	Cause of accident.
1903.										
Aug 7	Peter Bogards	30	Miner	Chatham				1		Powder explosion.
Aug 8	Frank Powers	30	Miner	Pawnee				1		Falling coal
Aug 10	Albert Goekel	38	Carpenter	Staunton	1	1	5		8	Falling from roof of boiler house.
Aug 26	Wm. Davis	35	Miner	Chatham				1		Falling rock
Aug 26	Steve Bolki	28	Miner	Chatham				1		Falling rock
Sept 8	Frank Moloski	25	Miner	Cantrall				1		Falling coal
Oct 3	Hugo Lorenz	21	Miner	Mt. Olive				1		Falling slate
Nov 27	Jas. McClarron	24	Driver	Springfield				1		Falling slate
Dec 12	Robt. Bradley	38	Driver	Bissell				1		Caught by car and prop
Dec 12	Chas. Hueston	38	Mch. helper	Bunker Hill	1	1	2		3	Falling clod
Dec 17	Daniel Gordon	34	Top boss	Springfield	1	1			1	Struck by cage
1904.										
Jan 5	Simon Cormody	70	Miner	Greenridge	1	1	2		3	Falling coal
Jan 9	Geo. T. Prince	58	Shot firer	Pawnee	1	1	2		3	Suffocated — Windy shot
Jan 14	Thos. Cocks	27	Laborer	Mt. Olive				1		Surface cars
Jan 22	Jas. J. Williams	45	Miner	Viriden	1	1	2		3	Premature explosion
March 1	Patrick Burns	50	Miner	Viriden	1	1	2		3	Premature explosion
March 23	Carl Struck	40	Engineer	Springfield	1	1	1		2	Fan engine
March 24	Herman Haase	28	Sinker	Staunton	1	1			1	Fell from cage
March 31	Mathew Johnson	35	Miner	Viriden	1	1	3		4	Falling rock
April 13	Jos. Uchner	34	Miner	Pleasant Plains	1	1			1	Explosion of shot
April 19	Henry Horrick	58	Miner	Springfield	1	1	6		7	Premature blast
April 19	John Brown	53	Miner	Thayer	1	1	4		5	Falling coal
May 4	Henry Luck	58	Miner	Greenridge				1		Premature blast
May 17	John Sheppard	48	Top laborer	Springfield	1	1	6		7	Caught in machinery
May 24	Wm. Dungan	50	Miner	Springfield	1	1	2		3	Premature blast
June 14	Pearl Beenblossom	17	Trapper	Litchfield				1		Falling timbers
June 15	John Ridha	28	Miner	Staunton				1		Mining car
	Total 27				15	15	37	12	52	

Recapitulation of Fatal Casualties—Fifth District—1904.

Residence.	No.	Occupation.	No.	Nature of Casualty.	No.	Colliery.	No.
Bissell	1	Miners	16	Falling from roof of boiler house	1	Cantrall Coöper. C Co	1
Bunker Hill	1	Carpenter	1	Falling coal	1	Capitol Coal Co	1
Cantrall	1	Drivers	2	Falling rock	4	Chl. Viriden Coal Co	1
Chatham	2	Engineer	1	Falling clod	5	Chl. Wil. M. Co	1
Greenridge	2	Laborers	2	Falling timber	1	Consolidated Coal Co	1
Litchfield	1	Mch. helper	1	Fan engine	1	Consol'd C Co., No. 6	1
Mount Olive	2	Shot firer	1	Machinery	1	Consol'd C Co., No. 7	1
Pawnee	1	Sinker	1	Mining car	1	Consol'd C Co., No. 14	1
Pleasant Pl's	1	Top boss	1	Mining cage	2	Spaulding Coal Co	1
Staunton	3	Trapper	1	Powder explosion	2	Greenridge Mining Co	1
Springfield	6			Premature blast	1	Jefferson Coal Co	1
Thayer	1			Windy shot	5	Litchfield M. & P. Co	1
Viriden	3			Railroad car	2	Madison Coal Co	1
					1	Sangamon Coal Co	1
						Springfield C. & M Co., No. 4	1
						Trutter Coal Co	1
						Victor Coal Co	1
						Viriden Coal Co	1
						Wm. Neil & Co	1
Total	27		27		27		1

Non-Fatal Casualties—Fifth Insurance Survey, 1904.

Date.	NAME.	Age.	Occupation.	Residence. (Town.)	Name of mine.	Married.	Single.	Children.	No. persons dependent.	Character of injury and cause of accident.	Time lost— days.
1903											
July	13 M. Saugalett	52	Miner	Litchfield	L. M. & P. Co.	1	1	1	2	Leg broken; falling slate.	60
	30 J. W. Muir	45	Miner	Carlinville	Con. Coal Co.	1	1	1	2	Arm broken and body bruised; premature blast	52
Aug.	30 Geo. Bub	22	Top laborer	Staunton	Con. Coal Co. No. 8		1			Knee dislocated; coal car on surface	32
	1 Ed. Binney	30	Miner	Springfield	Wil. & Sp. C. Co.		1			Leg broken; falling slate.	32
	3 P. H. Shanahan	31	Cager	Gillespie	Con. Coal Co.	1	1	4	3	Finger badly mashed; mine car	56
	6 Ed. Davis	18	Driver	Litchfield	L. M. & P. Co.		1			Leg broken; pit cars	25
	12 Chas. Hassel	20	Driver	Staunton	Con. Coal Co. No. 6	1	1	1	2	Leg broken; mule falling on him	70
	13 Allen Johnson	22	Driver	P'sant Plains	Trutter Coal Co.		1			Body bruised; falling slate on hauling road.	90
	13 Ben. Wessell	18	Driver	Staunton	Con. Coal Co. No. 6		1			Foot mashed; mine car.	35
	21 Chas. Dunbar	19	Driver	Pawnee	Victor Coal Co.		1			Injured by mine car, leg amputated.	32
	22 Geo. Drier	19	Driver	Mount Olive	Mad. Coal Co. No. 5		1			Foot badly mashed; mine car.	40
	24 Geo. Edwards	24	Timberman	Divernon	Mad. Coal Co. No. 8.		1			Face and hands burned; explosion of fire damp	75
	24 Thos. Evans	54	Laborer	Divernon	Mad. Coal Co. No. 8.		1			Face and hands burned; explosion of fire damp	73
	24 John Gillespie	33	Timberman	Divernon	Mad. Coal Co. No. 6.	1		5	6	Face, hand and body burned; explosion of fire damp	106
	31 Henry Watts	45	Miner	Springfield	Wil. & Sp. C. Co.	1		2	3	Leg broken and body bruised; premature blast	92
Sept.	31 Jos. McAlpine	35	Miner	Springfield	Sp. C. M. Co. No. 4.	1		3	4	Leg badly bruised; falling slate	90
	4 Thos. Graydon	54	Miner	Thayer	C. W. & V. C. Co.	1			1	Body bruised; falling slate	99
	4 Jos. Long	36	Mac. help	Gillespie	Con. Coal Co.		1			Leg broken; falling coal	83
	8 Chas. Swanberg	25	Driver	Thayer	C. W. & V. C. Co.		1			Leg mashed; mine car	56
	10 Elmer Woolary	30	Roadman	Springfield	Sp. C. M. C. No. 3.		1			Knee dislocated; falling slate.	35
	16 W. G. Johnson	35	Miner	Springfield	Sp. C. M. Co. No. 5	1		1	2	Body bruised; falling slate	40
	22 Nick Kain	24	Driver	Thayer	C. W. & V. C. Co.		1			Body badly bruised; mine car	75
	2 Wm. Vivian	16	Spragger	Thayer	C. W. & V. C. Co.		1			Hand mashed in spragging mine car	37
Oct.	2 M. Klunger	46	Loader	Staunton	Con. Coal Co. No. 6		1			Leg and foot mashed; falling coal.	40
	3 I. S. Kanka	19	Ass't. cager.	Mount Olive	Con. Coal Co. No. 10.		1			Foot mashed; coal falling down shaft	32
	16 Mike Lukas	20	Miner	Staunton	Con. Coal Co. No. 7.		1			Hands and face burned by powder	54
	16 John Scitic.	25	Miner	Staunton	Con. Coal Co. No. 7.		1			Hands and face burned by powder	40
	24 Fred Hebenstreit	39	Cager	Staunton	Con. Coal Co. No. 6	1		8	9	Leg broken; struck by hauling cable	92
	26 Fred Benz Jun	17	Laborer	Mount Olive	Con. Coal Co. No. 10		1			Hand bruised; mine car.	32
	27 Thos. Blower	23	Driver	Divernon	Mad. Coal Co. No. 6.	1		1	2	Body badly bruised; mine car	136
	6 Fritz Sandner	23	Loader	Mount Olive	Mad. Coal Co. No. 5.		1			Foot badly mashed; falling coal	120
Nov.	6 Fred Cryder	33	Mac. help	Divernon	Mad. Coal Co. No. 6.	1		1	2	Leg broken; caught by machine	140

STATISTICS OF LABOR.

Non-Fatal Casualties—Fifth District—July 1, 1904—Concluded.

Date.	NAME	Age	Occupation.	Residence. (Town.)	Name of mine.	Married.	Children.	Single.	Persons Dependent.	Cause of Accident.	Days lost.
1903											
Nov.	Thos. Edwards	23	Driver	Mount Olive	Con. Coal Co. No. 10		1			Foot mashed; mine car	25
	Patrick O'Hara	25	Driver	Auburn	Abb. & A. C. C.		1			Leg broken; caught by mine car	75
	Paul Severick	24	Miner	Springfield	Wil. & Sp. C. Co.		1			Leg broken; falling slate	90
1904											
Jan.	Wm. Moore	45	Miner	Springfield	Jones & Adams C. C.	1		5	6	Body badly bruised; premature blast.	110
	Steve German	50	Miner	Virden	Chi. V. C. C. No. 1		1			Body bruised; falling coal and slate	37
	Henry Seber	24	Driver	Springfield	Jones & Adams C. C.		1			Body bruised; caught by mine car	46
	Clyde Babbitt	16	Driver	Divernon	Mad. C. C. No. 4		1			Foot mashed; mine car	26
	Chris Stodole	35	Loader	Mount Olive	Mad. C. C. No. 5	1		2	3	Ribs broken; falling slate	41
	Ed. Boyle	20	Spragger	Thayer	C. W. & V. C. C.		1			Loaded car run over fingers; mashed.	32
	Jos. Stockman	30	Timberman	Virden	Virden Coal Co.		1			Leg broken; falling slate	90
Feb.	Thos. Gilmore	25	Driver	Springfield	Jones & Adams C. C.		1			Leg broken; mine car	90
	John Gosh	30	Laborer	Mount Olive	Mad. C. C. No. 5	1		1	2	Eye injured; piece iron in blacksmith shop	90
Mar.											
	Herman Frankie	36	Loader	Mount Olive	Mad. C. C. No. 5	1		2	3	Leg broken; falling coal	34
	Jos. Cuthbert, Sen.	29	Loader	Mount Olive	Mad. C. C. No. 5	1		6	7	Leg broken; falling coal	90
	T. Piper	22	Driver	Carlinville	Carlinville C. C.	1			1	Shoulder blade broken; mine car	90
	Robt. Steln.	24	Timberman	Carlinville	Carlinville C. C.		1			Body bruised; falling slate	32
	Jos. Wetzel	30	Miner	Carlinville	Carlinville C. C.		1			Leg broken; falling coal and slate	35
	John Mondula	50	Laborer	Thayer	C. W. & V. C. C.		1			Body bruised; mine car	90
	Thos. Gardner	28	Driver	Divernon	Mad. C. C. No. 6		1			Body bruised; mine car	42
Apr.	Herbert Robinson	45	Miner	Coffeen	Clov. L. C. C.	1		1	2	Hands and face burned; powder explosion	35
	Henry Majors	32	Miner	Coffeen	Clov. L. C. C.	1		3	4	Hands and face burned; powder explosion	32
	Wm. Redding	38	Miner	Coffeen	Clov. L. C. C.	1		2	3	Hands and face burned; powder explosion	32
June											
	Robt. Hamilton	33	Laborer	Thayer	C. W. & V. C. C.	1		1	2	Foot bruised; falling coal	65
	Frank Simmons	45	Miner	Litchfield	L. M. & P. Co.		1			Body badly bruised; premature blast.	32
	Totals					22	34	51	73		

Not recovered July 1, 1904. Total number injured, 56. Not recovered July 1, 1904, 1. Recovered June 30, 1904, 55.
 Rate lost by men recovered, 3,353 days. Average number of days lost by men recovered, 66 days.

Capitulation of Non-Fatal Casualties—Fifth District—July 1, 1904.

INCIDENT.	No.	Occupation.	No.	Cause of Accident.	No.	Colliery.	No.
Carlinville.....	1	Cager	2	Blast explosion	4	Auburn & A. C. Co...	1
Carlinville.....	4	Cagers Asst.	1	Flying iron, black-smith shop.	1	Carlinville C. Co.....	4
Carlinville.....	3	Drivers	18	Cable.	1	Chi-Virden C. Co. No. 1	1
Carlinville.....	7	Laborer	6	Falling coal.	8	Chi-W. & V. C. Co.....	7
Carlinville.....	2	Loaders	6	Falling down shaft	1	Clover Leaf C. Co.	3
Carlinville.....	3	Machine helper	2	Falling slate	11	Consolidated C. Co...	2
Carlinville.....	9	Miners	17	Fire damp.	3	Consold'd C. Co. No. 8	5
Carlinville.....	1	Roadsman	1	Machine	1	Consold'd C. Co. No. 7	2
Carlinville.....	1	Spraggers	2	Mule	1	Consold'd C. Co. No. 10	3
Carlinville.....	9	Timbermen	4	Pit cars	20	Jones & Adams.....	3
Carlinville.....	7			Powder explosion.	5	Litchfield M. & P. Co	3
Carlinville.....	7					Madison C. Co. No. 5	5
Carlinville.....	2					Madison C. Co. No. 6	8
						Springfield C&M No. 8	1
						Springfield C&M No. 4	1
						Springfield C&M No. 5	1
						Trutter C. Co.....	1
						Victor C. Co.....	1
						Virden C. Co.....	1
						Wil Springfield C. C.	3
	56		56		56		56

Table showing the Nature of Injuries, Number of Persons Injured, Dependents, Time Lost, with Averages and Percentages, Fifth District—1904.

NATURE OF INJURIES.	Number.	Married.	Single.	Dependents.	TIME LOST.		Per cent of injuries.
					Total days.	Average days.	
broken	1	1	.....	2	52	52	1.79
as injured	12	4	8	11	646	54	21.43
njured	1	1	.....	2	84	84	1.79
s and hands burned	3	4	4	15	462	58	14.28
ers mashed	2	1	1	5	67	34	3.57
mashed	7	1	6	2	327	47	12.50
l injured	1	.....	1	.....	32	32	1.79
l mashed	1	.....	1	.....	37	37	1.79
s dislocated	2	.....	2	.....	67	34	3.57
broken	15	7	8	28	1,300	87	28.78
njured	4	1	3	4	186	47	7.13
broken	1	1	.....	3	41	41	1.79
lder blade broken	1	1	.....	1	32	32	1.79
Totals, averages and percentages....	56	22	34	73	3,538	66	100.00

Brown County—Fifth District—1904.

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE—				
			Total.	Mine run.	Lump.	Egg.	Nut.
LOCAL MINES.							
1	Thos. Lewis	Ripley	420	420	.....	.....	.....
2	L. Hedrick	Ripley	304	304	.....	.....	.....
3	Geo. Dunlap	Mt. Sterling ..	310	210	.....	.....	.....
4	J. Howard	Mt. Sterling ..	204	204	.....	.....	.....
5	Geo. Adams	Mt. Sterling ..	195	195	.....	.....	.....
	Strip coal *		250	250	.....	.....	.....
	Total 5 mines .....	.....	1,583	1,583	.....	.....	.....

Mines in 1903—10.
New mines—2.
Abandoned mines—7.
Mines in 1904—5.
* Strip coal.

Calhoun County—Fifth District—1904.

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE—				
			Total.	Mine run.	Lump.	Egg.	Nut.
LOCAL MINES.							
1	Thomas Press Brick Co.....	Golden Eagle	3,110	3,110	.....	.....	.....
	Total 1 mine .....	.....	3,110	3,110	.....	.....	.....

Brown County Fifth District—Concluded.

IN TONS.		Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
Pea or screenings.	Slack or waste.		Average number of miners.	All other employes	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
.....	\$3,168	10	.....	10	.....	.....	1,583	.....	106	1,583	.....
		420						420		120	420	1
		314						314		110	304	1
		210						210		105	210	1
		204						204		98	204	1
		186						186		90	186	1
		250						250		.....	250	1

NOTE—Price paid for hand mining all mines \$1.25 per ton.

Calhoun County Fifth District—Concluded.

IN TONS.		Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
Pea or screenings.	Slack or waste.		Average number of miners.	All other employes	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
.....	\$3,220	8	5	13	.....	.....	.....	3,110	240	.....	1
.....	\$3,220	8	5	13	.....	.....	.....	3,110	240	.....	1

NOTE—Price paid for machine mining \$0.50 per ton.

Greene County—Fifth District—1904.

Number.	NAME OF OPERATOR.	Postoffice Address of mine.	OUTPUT OF MINE—				
			Total.	Mine run.	Lump.	Egg.	Nut.
LOCAL MINES.							
1	Dill Coal Co.	Roodhouse ...	3,353	3,353	.....	.....	.....
2	A. F. Collins	Greenfield....	2,950	2,950	.....	.....	.....
3	Ed Griffiths.....	Roodhouse ...	2,891	2,891	.....	.....	.....
4	Ed Axley.....	Roodhouse ...	1,440	1,440	.....	.....	.....
5	Cal Cummings.....	Roodhouse ...	160	160	.....	.....	.....
6	Duggan & Tully	Scottsville ...	62	62	.....	.....	.....
7	J. Hart.....	Greenfield....	48	48	.....	.....	.....
Totals—7 mines.....			10,904	10,904	.....	.....	.....

Mines in 1903, 7.
New mines, 1.
Abandoned mines, 1.
Mines in 1904, 7.

Jersey County—Fifth District—1904.

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE—				
			Total.	Mine Run.	Lump.	Egg.	Nut.
LOCAL MINES.							
1	Cairns & Bott Bros.....	Brighton.....	928	928	.....	.....	.....
2	L. Miller.....	Brighton.....	820	820	.....	.....	.....
3	L. Hubner.....	Brighton.....	420	420	.....	.....	.....
4	E. Harnish.....	Brighton.....	362	362	.....	.....	.....
5	L. Wagenglass.....	Brighton.....	340	340	.....	.....	.....
6	Jas. Fitzsimmons.....	Brighton.....	325	325	.....	.....	.....
7	Ed Spingman.....	Brighton.....	210	210	.....	.....	.....
Totals—7 mines.....			3,405	3,405	.....	.....	.....

Mines in 1903, 6.
New mines, 1.
Mines in 1904, 7.

Greene County—Fifth District—Concluded.

No.	Slack or waste.	Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
			Average number of miners	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
		\$3,368			11			3,333		282		1
		1,268			7			1,260		231		3
		1,080			7			1,081		231		3
		108			1			108		90		4
		84			1			82		48		5
								48				7
		\$19,082	30	5	35			10,904		185	10,904	

RE.—Price paid for hand mining, all mines, \$1.00 per ton.

Jersey County—Fifth District—Concluded.

No.	Slack or waste.	Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
			Average number of miners	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
		\$1,624			4			323		180	323	1
		1,435			4			320		210	330	2
		735			4			430		130	420	3
		634			4			382		125	382	4
		595			4			340		120	340	5
		569			4			323		120	325	6
		367			4			210		80	210	7
		\$5,957	15	7	22			3,405		136	3,405	

RE.—Price paid for hand mining, all mines, \$1.00 per ton.

Macoupin County—Fifth District—1904.

		OUTPUT OF MINE.					
Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	Total.	Mine run	Lump.	Egg.	Nut.
SHIPPING MINES.							
1	Chicago-Virden Coal Co., No. 1	Virden	348,388	800	235,953	2,566	35.36
2	Consolidated Coal Co., No. 6	Staunton	240,653	126,146	74,557		
3	Madison Coal Co., No. 5	Mt. Olive	224,330	30,971	144,742		
4	Consolidated Coal Co., No. 8	Mt. Olive	195,183	51,018	104,674		
5	Girard Coal Co	Girard	183,312	10,621	117,689		
6	Consolidated Coal Co., No. 10	Mt. Olive	174,273	12,891	114,073		
7	Consolidated Coal Co., No. 7	Staunton	171,753	27,188	110,631		
8	Greenridge Mining Co	Greenridge	161,834	119,476	25,929		
9	Virden Coal Co.	Virden	141,642	45,419	56,821	280	
10	Carlinville Coal Co.	Carlinville	109,654	79,862	18,450		2.35
11	Consolidated Coal Co.	Gillespie	66,988	11,678	36,007		
12	Manufacturers Fuel Co	Nilwood	63,463		48,173		
13	Royal Colliery Co.	Virden	49,870	14,975	12,340	8,691	
14	Consolidated Coal Co.	Hornsby	42,145	619	30,838		
15	Superior Coal Co., No. 1	Gillespie	25,478	25,478			
16	Consolidated Coal Co., No. 14	Staunton	8,502	8,502			
17	Superior Coal Co., No. 2	Gillespie	484	484			
Totals			2,207,902	565,928	1,150,177	11,567	35.61
LOCAL MINES.							
1	Wm. Neil & Co	Bunker Hill	6,482		5,120		79
2	Davis Bros	Chesterfield	2,120		2,120		
3	Fred Luekings	Brighton	1,120		1,120		
4	G. D. Loper	Chesterfield	1,058		1,058		
5	W. H. A. Bodl	Chesterfield	825		825		
6	E. Lannsford & Co	Bunker Hill	720		720		
7	John Harbaugh	Chesterfield	642		642		
8	Wm. Hickey	Chesterfield	420		420		
9	Bouser & Truesdale	Bunker Hill	185		185		
Totals			13,572		12,210		79
Totals—26 mines			2,221,474	565,928	1,142,387	11,567	35.34

Mines in 1903, 22.
 New mines, 6.
 Abandoned mines, 2.
 Mines in 1904, 26.

Macoupin County—Fifth District—Concluded.

MINE	Slack or waste.	Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
			Average number of miners.	All other employes.	Total	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
6	19,125	\$400,839	220	175	395	331,580	...	8,322	8,436	230	22,680	1
7	...	213,817	180	94	274	192,869	26,030	10,080	11,894	176	...	2
8	...	212,947	119	108	227	184,880	28,797	1,508	9,165	211	...	3
9	...	176,271	150	81	231	181,299	...	4,064	9,770	147	...	4
10	...	199,821	161	72	233	175,943	...	5,134	2,235	217	183,312	5
11	...	154,111	140	71	211	164,217	...	...	10,056	152	...	6
12	...	158,340	145	78	223	161,086	...	149	10,518	153	...	7
13	2,890	137,547	160	61	221	155,605	...	3,539	2,890	180	161,894	8
14	1,204	148,401	120	60	180	125,435	6,986	5,395	3,826	203	141,642	9
15	3,975	107,873	120	42	162	82,623	1,639	11,242	4,150	182	109,654	10
16	...	66,662	90	52	142	44,859	10,084	5,295	6,670	141	...	11
17	...	71,884	75	30	105	61,638	...	1,825	...	180	68,469	12
18	...	50,913	75	80	155	47,930	...	1,340	700	142	49,870	13
19	...	44,963	40	35	75	34,552	...	1,230	6,363	153	...	14
20	...	28,752	51	23	74	25,430	49	75	...	15
21	...	7,907	40	18	58	6,607	1,895	60	...	16
22	...	508	18	24	42	474	10	40	...	17
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	26,994	\$2,178,956	1,804	1,062	2,866	1,986,907	73,516	59,203	88,476	177	732,455	

RE.—Price paid for hand mining, shipping mines: From July 1, 1903, to April 1, 1904, \$0.52; from April 1, 1904, to July 1, 1904, \$0.52. Average price for year, \$0.5425.

Price paid for machine mining, shipping mines: From July 1, 1903, to April 1, 1904, \$0.48; from April 1, 1904, to July 1, 1904, \$0.45. Average price for year, \$0.4725 per ton.

...	\$10,001	10	5	15	...	...	6,157	325	220	...	...	1
...	3,710	5	1	6	...	...	2,120	...	224	...	2,120	2
...	1,960	3	1	4	...	...	1,120	...	165	...	1,120	3
...	1,851	3	1	4	...	...	1,058	...	175	...	1,058	4
...	1,444	3	1	4	...	...	825	...	150	...	825	5
...	1,260	2	1	3	...	...	720	...	180	...	720	6
...	1,123	2	1	3	...	...	642	...	172	...	642	7
...	735	2	1	3	...	...	420	...	100	...	420	8
...	824	2	1	3	...	...	185	...	90	...	185	9
<hr/>												
	\$22,406	32	13	45	...	...	13,247	325	173	...	7,090	
<hr/>												
	26,994	\$2,201,364	1,936	1,095	3,031	1,986,907	73,516	72,250	88,801	...	739,545	

Price paid for hand mining local mines, \$1.00 per ton.
Price paid for machine mining local mines, \$0.50 per ton.

Montgomery County—Fifth District—1904.

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE—				
			Total.	Mine run.	Lump.	Egg.	Nut.
SHIPPING MINES.							
1	Hillsboro Coal Co.....	Hillsboro	156,498	22,906	88,569	.....	7,072
2	Montgomery Coal Co.....	Paisley	136,863	3,300	72,695	9,963	18,757
3	Litchfield M. & P. Co.....	Litchfield.....	105,114	16,014	53,800	12,700	10,600
4	Clover Leal Coal Co.....	Coffeen.....	92,476	2,477	75,776	.....	3,583
5	Miller Coal Co	Raymond	3,550	.....	3,220	.....	.....
Total, 5 mines.....			494,501	44,697	294,080	22,663	40,012

Mines in 1903, 5.
Mines in 1904, 5.

Morgan County—Fifth District—1904.

Number.	NAME OF OPERATOR.	Postoffice Address of mine.	OUTPUT OF MINE—				
			Total.	Mine run.	Lump.	Egg.	Nut.
LOCAL MINES.							
1	F. Waggstaff	Murryville....	3,200	3,200	.....	.....	.....
2	Jacob Stocker	Arenzville....	1,100	1,100	.....	.....	.....
Totals, 2 mines.....			4,300	4,300	.....	.....	.....

Mines in 1903, 2.
Mines in 1904, 2.

Montgomery County—Fifth District—1904—Concluded.

KS.	Slack or waste.	Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
			Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
	4,248	\$162,651	110	68	178	142,298	..	2,945	4,255	201	..	1
	..	142,268	140	54	194	181,385	..	2,652	1,846	129	138,863	2
	12,000	118,205	90	58	148	77,871	2,200	22,643	2,400	270	105,114	3
	..	109,122	65	53	108	88,294	..	2,382	1,800	258	92,478	4
	10	4,334	8	4	12	625	..	2,840	85	177	3,580	5
	16,258	\$536,580	413	192	605	440,453	2,200	11,462	10,385	208	338,064	

TE—Price paid for hand mining from July 1, 1903 to April 1, 1904, \$0.55; from April 1, July 1, 1904, \$0.52; average price per year, \$0.5425 per ton. Price paid for machine from July 1, 1903 to April 1, 1904, \$0.48; from April 1, 1904 to July 1, 1904, \$0.45. Average for year, \$0.4725.

Morgan County—Fifth District—1904—Concluded.

VS.	Slack or waste.	Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
			Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
	..	\$5,600	10	..	10	..	..	3,200	..	180	3,200	1
	..	2,475	10	1	11	..	..	1,100	..	206	1,100	2
	..	\$8,075	12	2	14	..	..	4,300	..	194	4,300	

TE—Average price paid for hand mining for year \$1.064.

Sangamon County—Fifth District—1904.

		OUTPUT OF MINES.				
Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	Total.	Mine run.		
					Lump.	Per-
SHIPPING MINES.						
1	Chicago, Wilm. & Verm. Coal. Co.	Thayer	887,652		188,165	44,766
2	Madison Coal Co.	Divernon	288,880	7,211	181,779	8,653
3	Jones & Adams Coal Co.	Springfield	261,991	97,508	99,793	
4	Victor Coal Co.	Pawnee	249,315	23,633	112,342	
5	Chicago, Virden Coal Co., No. 2	Auburn	237,983	46,674	114,840	173
6	Springfield Coal Min. Co., No. 2.	Riverton	235,658	15,865	126,008	1,865
7	Capitol Co-Oper. Coal Co.	Springfield	197,844		122,021	24,343
8	Springfield Coal Min. Co., No. 5.	Springfield	186,439	96,765	61,165	
9	Springfield Coal Min. Co., No. 4.	Springfield	162,193	94,735	45,938	
10	Woodside Coal Co.	Springfield	160,536	111,536	24,500	
11	Springfield Co-Oper. Coal Co.	Springfield	160,000		130,200	
12	West End Coal Co.	Springfield	150,272	31,256	71,409	
13	Springfield Coal Min. Co., No. 1	Riverton	144,135	30,109	76,169	
14	Springfield Coal Min. Co., No. 3	Springfield	132,435	45,498	59,961	
15	Jefferson Coal Co.	Springfield	131,052	65,120	43,624	
16	Sangamon Coal Co.	Springfield	126,005	48,592	51,712	
17	Auburn & Alton Coal Co.	Auburn	121,090	60,589	37,120	
18	Cantrall Co Oper. Coal Co.	Cantrall	116,611	33,264	56,874	
19	Wilmington & Springfield C. Co.	Springfield	109,258	14,326	54,963	
20	Wabash Coal Co., No. 1.	Dawson	107,606	21,566	50,457	
21	Spaulding Coal Co., No. 1.	Spaulding	105,673	31,702	42,210	
22	Chicago-Virden Coal Co., No. 3	Chatham	104,881	28,211	50,439	
23	Citizens Coal Min. Co., B.	Springfield	103,353	16,148	59,915	
24	Wilhamsville Coal Co.	Selbytown	100,395	20,177	40,000	
25	Spaulding Coal Co., No. 2.	Bissell	94,788	29,432	42,400	
26	Barclay Coal Mining Co.	Barclay	94,399	37,251	37,616	
27	Citizens Coal Mining Co., A.	Springfield	82,932	12,407	61,065	
28	Truttor Coal Co.	Pleasant Plai's	81,000	10,200	40,100	
29	Tuxhorn Coal Co.	Keys	22,502	22,225	92	24
30	Chicago-Springfield Coal Co.	Springfield	11,087	11,087		
31	Peabody Mining Co.	Sherman	9,500	9,500		
Totals			4,474,886	1,072,527	2,079,297	79,204
LOCAL MINES.						
1	Lincoln Park Coal Min. Co.	Springfield	39,000		22,500	
2	J. P. Gordon	Salisbury	2,208		1,620	
3	Island Grove Coal Co.	Berlin	287		232	
Totals			41,495		24,352	
Totals—34 mines			4,516,381	1,072,527	2,103,649	79,204

Mines in 1903, 30.

New mines, 4.

Mines in 1904, 34.

Sangamon County—Fifth District—Concluded.

No.	Slack or waste.	Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
			Average number of miners.	All other employees.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
.....		\$354,626	210	200	410	374,755	.....	2,100	10,797	230	.....	1
.....		289,437	142	137	277	372,616	.....	4,354	8,910	214	.....	2
.....		264,896	216	120	336	246,051	.....	9,014	6,926	197	261,991	3
.....		235,443	210	85	295	235,825	2,122	7,499	3,889	220	249,515	4
2,193		252,492	225	104	329	231,678	.....	2,360	3,909	182	237,883	5
38,388		248,732	172	86	258	223,196	.....	.....	12,462	214	235,858	6
19,703		222,189	158	68	226	160,530	27,107	50,006	19,703	285	197,344	7
15,783		198,134	138	60	198	173,599	.....	4,800	8,040	222	186,439	8
9,616		172,759	157	55	212	146,280	.....	7,662	8,221	207	162,193	9
9,350		168,255	161	57	218	115,836	23,500	9,800	6,400	200	160,536	10
4,800		169,830	140	50	190	128,000	.....	28,000	4,000	210	160,000	11
.....		166,339	129	46	175	116,201	11,052	20,058	3,961	236	150,272	12
14,537		185,630	118	58	176	132,062	118	4,470	7,465	232	144,135	13
16,315		142,000	108	51	159	123,256	.....	325	8,854	221	132,435	14
.....		140,703	90	49	139	117,456	.....	10,889	2,707	264	131,052	15
3,720		133,263	136	47	183	113,506	.....	3,720	3,779	180	126,005	16
2,460		123,910	110	36	145	111,531	.....	7,099	2,460	200	121,090	17
1,725		131,902	98	49	147	86,887	24,462	1,737	1,725	242	118,611	18
3,006		116,351	109	70	179	92,568	.....	11,617	5,078	213	109,258	19
.....		118,564	90	45	135	101,189	.....	2,667	3,750	191	107,608	20
5,342		109,592	110	40	150	89,871	.....	10,568	5,284	175	106,873	21
1,126		112,028	108	67	175	98,155	.....	2,422	4,305	200	104,882	22
1,275		125,964	102	32	134	98,186	.....	.....	5,168	220	103,553	23
.....		103,274	85	43	128	87,865	.....	8,220	4,210	190	100,295	24
.....		101,729	125	37	162	86,847	.....	1,200	4,740	228	94,787	25
.....		98,920	99	44	143	83,808	.....	6,370	4,213	291	94,899	26
1,024		112,106	94	32	126	64,766	16,066	1,074	1,026	158	82,832	27
.....		90,385	40	13	53	59,000	.....	20,000	2,000	270	81,000	28
117		25,362	32	26	58	22,269	.....	116	117	120	22,502	29
.....		14,418	48	17	65	10,637	.....	.....	450	90	11,087	30
.....		9,975	62	26	88	9,100	.....	.....	400	75	9,600	31
150,460		\$4,708,954	3,822	1,848	5,670	3,962,340	109,425	238,221	164,879	214	3,800,833	

RE.—Price paid for hand mining in 28 shipping mines. From July 1, 1903, to April 1, 1904, \$0.557; from April 1, 1904, to July 1, 1904, \$0.527. Average price for year, \$0.5495.
 Price paid for hand mining in 3 shipping mines. From July 1, 1903, to April 1, 1904, \$0.53; from April 1, 1904, to July 1, 1904, \$0.52. Average price for year, \$0.5425. Average price for mining for year in Sangamon County, \$0.5486 per ton.
 Price paid for machine mining: From July 1, 1903, to April 1, 1904, \$0.48. From April 1, 1904, to July 1, 1904, \$0.45. Average for year, \$0.4725.

6,500	\$58,250	30	14	44	.....	37,050	1,950	240	39,000	1
150	3,751	4	3	7	.....	2,099	110	260	2,209	2
10	534	6	3	9	.....	277	10	60	287	3
6,660	\$62,535	40	20	60	.....	39,423	2,070	260	41,493	
157,120	\$4,771,489	3,862	1,868	5,730	3,962,340	109,425	277,644	166,949	3,841,828	

Price paid for hand mining: From July 1, 1903, to April 1, 1904, \$0.557, from April 1, 1904, to July 1, 1904, \$0.527. Average price for year, \$0.5495 per ton.

Scott County—Fifth District—1904.

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE.				
			Total.	Mine Run.	Lump.	Egg.	Nut.
LOCAL MINES.							
1	Wm. H. Bates & Co	Winchester	16,115	.....	15,513	.....	.....
2	Chas. McElwee.....	Winchester...	1,383	1,383	.....	.....	.....
3	Wm. Kund.....	Bluffs.....	1,234	1,234	.....	.....	.....
4	Brockett & Berry.....	Exeter.....	810	810	.....	.....	.....
5	Geo. Rayborn.....	Winchester.	804	804	.....	.....	.....
6	John McGuire.....	Alsey.....	800	800	.....	.....	.....
7	George R. Jones.....	Winchester	715	715	.....	.....	.....
8	P. McGuire.....	Alsey.....	650	650	.....	.....	.....
9	Fred Brockhouse.....	Chapin.....	598	598	.....	.....	.....
10	Wm. Middendorf.....	Chapin.....	420	420	.....	.....	.....
11	Armitage & Brown.....	Exeter.....	310	310	.....	.....	.....
12	Herman Poblman.....	Bluffs.....	250	250	.....	.....	.....
13	M. Six.....	Exeter.....	210	210	.....	.....	.....
14	E. Jording.....	Exeter.....	180	180	.....	.....	.....
15	E. Rauff.....	Bluffs.....	175	175	.....	.....	.....
Total 15 mines.....			24,652	8,537	15,515	.....	.....

Mines in 1903—1a.
Abandoned mines—3
Mines in 1904—15.

Recapitulation by Counties—

COUNTIES.	Number of shipping mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Macoupin... ..	17	2,207,902	565,928	1,130,177	11,567	35,624	437,612	25,994	\$2,178,956
Montgomery . . .	5	494,501	44,697	394,080	22,663	40,012	76,791	16,258	536,599
Sangamon	31	4,474,865	1,072,527	2,079,297	79,204	143,966	950,411	150,460	4,708,954
Totals and averages	53	7,177,268	1,683,152	3,508,554	113,434	219,602	1,464,814	193,712	\$7,424,499

Scott County—Fifth District—Concluded.

IN TONS.			EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
Pea or screenings.	Slack or waste.	Aggregate value of total product.	Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
..	600	23,687	27	11	38	..	12,393	2,469	250	298	16,115	1
..	..	2,420	..	1	4	..	..	1,583	..	220	1,583	2
..	..	1,458	..	..	..	..	..	1,234	..	240	1,234	3
..	..	1,630	..	1	4	..	..	510	..	205	510	4
..	..	1,407	..	1	4	..	..	804	..	215	804	5
..	..	1,400	..	..	..	..	..	300	..	204	300	5
..	..	1,251	..	1	4	..	..	715	..	200	715	7
..	..	1,133	..	..	..	..	..	650	..	194	650	8
..	..	1,192	..	..	..	..	..	598	..	187	598	9
..	..	840	..	1	3	..	..	420	..	190	420	10
..	..	620	..	..	..	..	..	510	..	187	510	11
..	..	500	..	1	2	..	..	250	..	190	250	12
..	..	420	..	1	3	..	..	210	..	187	210	13
..	..	360	..	..	..	..	..	180	..	175	180	14
..	..	350	..	..	..	..	..	175	..	172	175	15
600		\$42,653	63	16	81	..	12,393	12,005	250	198	24,652	

NOTE—Average price paid for hand mining for year \$1.12 per ton.

Fifth District—1904—Shipping Mines.

EMPLOYEES.			DISPOSITION OF OUTPUT.					TONS MINED.		PRICES PAID PER TON FOR—		Number of steam boilers.	Number of fans.
Number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mines.	Tons sold to local trade.	Tons consumed and wasted at mines.	Average number of days in operation.	By hand.	By machines.	Hand mining.	Machine mining.		
1,804	1,062	2,866	1,986,907	73,516	59,003	88,476	177	732,455	1,475,447	\$0.5425	\$0.4725	76	15
412	192	605	440,453	2,300	41,462	10,396	205	338,003	156,496	0.5425	0.4725	18	5
2,222	1,846	5,070	3,962,340	109,425	238,221	164,879	214	3,800,333	674,532	0.5486	0.4725	115	31
6,139	3,122	9,261	6,389,700	185,141	336,686	263,741	202	4,870,791	2,305,477	\$0.5473	\$0.4725	51	

Recapitulation by Counties—

COUNTIES.	Number of local mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Brown	5	1,583	1,583						\$ 3,108
Calhoun	1	3,110	3,110						6,220
Greene	1	10,904	10,904						19,002
Jersey	7	3,405	3,405						5,960
Macoupin	9	18,572		12,210		720	642		22,406
Morgan	2	4,300	4,300						8,005
Sangamon	3	41,493		24,872			10,461	6,660	62,536
Scott	15	24,652	8,587	15,515				800	42,653
Totals and averages	49	103,019	31,839	52,097		720	11,103	7,260	\$177,400
Totals, districts — all mines	102	7,280,287	1,714,991	3,555,651	113,434	219,323	1,475,917	200,972	\$7,504,500

Whole number of mines reported in 1903, 101.

Number of new mines opened during the year, 14.

Number of mines exhausted or abandoned during the year, 13.

Whole number of mines reported for 1904, 102.

Fifth District—1904—Local Mines.

EMPLOYEES.			DISPOSITION OF OUTPUT.					TONS MINED		PRICES PAID P R TON FOR—		Number of steam boilers.	Number of fans.
Number of miners	All other employes	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mines.	Tons sold to local trade.	Tons consumed and wasted at mines.	Average number of days in operation.	By hand.	By machines.	Hand mining.	Machine mining.		
10	..	10	..	..	1,583	..	108	1,583	..	\$1.23	.....	..	..
8	5	13	..	..	..	3,110	340	..	3,110	.....	\$0.50	2	1
30	5	35	..	..	10,904	..	165	10,904	..	1.00	..	..	..
15	7	22	..	..	3,405	..	136	3,405	..	1.00	.....	..	..
32	13	45	..	..	13,247	825	173	7,060	6,482	1.00	0.50	2	1
12	2	14	.....	.....	4,300	..	194	4,300	..	1.064	.....	..	..
40	20	60	..	..	39,423	2,070	260	41,493	..	0.549	.....	4	1
63	18	81	.....	12,396	12,006	250	196	24,632	..	1.12	.....	2	1
210	70	280	.....	12,296	84,838	3,755	169	93,427	9,562	\$0.838	\$0.50	10	4
6,302	3,192	9,541	6,389,700	197,537	423,554	269,496	...	4,964,218	2,316,069	..	.....	219	55

SIXTH INSPECTION DISTRICT—1904.

NINTH ANNUAL REPORT.

(The Sixth Inspection District was formed in 1895, the first annual report was for the year ended June 30, 1896.)

Counties—Bond, Clinton, Madison, Marion, St. Clair.

HON. DAVID ROSS,

Secretary, State Bureau of Labor Statistics, Springfield, Ill.

SIR—In compliance with an act of the General Assembly of this State defining the duties of the State inspectors of coal mines, and requiring annual reports, I herewith submit the ninth annual report of the sixth inspection district, for the year ended June 30, 1904. The counties of the district producing coal are Bond, Clinton, Madison, Marion and St. Clair.

This report gives tabulated statements by counties, of the number of mines operated, with the names of the companies or firms operating the same; the total output of all grades of coal and the disposition of the same; the aggregate value of the output at the mine; the number of miners and other employees; the tonnage mined by hand, also by cutting machines; the number of machines in use; the number of kegs of powder used in blasting coal; the name and size of the fans used with the estimated capacity of cubic feet of air per minute; the number of fatal and non-fatal accidents, and the number of widows and children left dependent.

The following is a summary taken from the statistical tables for the fiscal year:

Number of counties in which coal is produced.....	5
Number of new mines, shipping.....	5
Number of mines abandoned, shipping.....	4
Number of shipping mines.....	84
Number of local mines.....	33
Total tonnage of shipping mines.....	8,530,023
Total tonnage of local mines.....	104,000
Total tons of all mines.....	8,634,723
Tons loaded on cars for shipment.....	7,678,710
Tons supplied to locomotives.....	307,224
Total tons sold to local trade.....	306,337
Tons consumed and wasted at mines.....	342,395
Aggregate value of total product.....	\$7,797,173
Number of miners in all mines.....	6,632
Number of other employés, including boys.....	3,083
Total number of persons employed.....	9,665
Average number of days of active operation, shipping mines.....	215
Total number of mines using machines.....	31
Number of machines in use.....	325
Number of machines operated by electricity.....	27
Number of machines operated by compressed air.....	298
Total tons cut by machines.....	3,704,224
Total tons produced by hand in all mines.....	4,930,502
Number of fatal accidents.....	25
Number of non-fatal accidents, losing 30 days or more of time.....	20
Number of wives made widows.....	42
Number of children left fatherless.....	104
Number of tons produced for each fatal accident.....	104
Number of tons produced for each non-fatal accident.....	104
Number of persons employed to each fatal accident.....	104
Number of persons employed to each non-fatal accident.....	104

The following table shows the coal production by counties, with the increase in each, for the years ending June 30, 1903 and 1904:

COUNTIES.	TOTAL OUTPUT OF ALL GRADES OF COAL IN TONS.		Increase.
	1903.	1904.	
Clair.....	3,134,679	3,418,469	283,790
Madison.....	2,551,587	3,090,892	479,305
Clinton.....	1,002,047	1,083,734	81,687
St. Clair.....	870,518	925,515	54,997
.....	176,000	176,116	116
Total.....	7,734,831	8,634,726	899,895

1 of the counties in the district show an increase, making a total of 895 tons; both Madison and St. Clair counties show a large increase in output.

The number of mines using machines has decreased from 38 in 1903 to 31 in 1904; however, the number of machines in use this year has increased from last year to 325 this year, an increase of 27 machines. Notwithstanding the increase in the number of machines the number of tons produced by machines has decreased from 1903 by 150,349 tons.

The number of fatal accidents for the year are 35, being an increase of 5 over last year. The ratio per 1,000 of the number of persons killed is 3.83 for last year and 3.62 for this year.

The subject is here presented which is being considered at this time with a degree of interest, and which has an important bearing on the question of the advantages between the machine and hand mines.

In this district it is found that the amount of coal produced is 40.8 tons per keg of powder used, in mines where coal is mined by hand; in mines where machines are used to undercut the coal 85.4 tons of coal was produced per keg. Assuming the price of a keg of powder to be \$1.75, makes the cost of powder for coal mined by hand \$0.429 per ton, and where mined by machine \$0.205 per ton.

It may also be of interest to know the variations in the number of tons produced per keg of powder in the several counties in the district. In Madison county, where shooting is done off of the solid 34.1 tons were produced per keg; while in machine mines 92.3 tons were produced per keg. In St. Clair county 33.4 tons were produced per keg, in hand mines; in machine mines 83 tons per keg. In Marion county 107.7 tons per keg were produced in machine mines and 32.2 tons per keg in hand mines. In Clinton county 124.3 tons were produced per keg in machine mines and in hand mines 38 tons per keg. In Bond county 66.8 tons were produced per keg where shooting is done off of the solid, and 109.26 tons where coal is mined by machinery.

NEW MINES.

The statement following is of mines being sunk during the year and which do not appear in the tables:

The Mt. Olive & Staunton Coal company, Staunton, Macoupin county, has sunk its No. 2 mine; it is located two miles east of the No. 1 mine. It is equipped with a steel tower and an electric plant has been installed. The buildings on the surface, engine and boiler rooms, are built of brick; the main and escapement shafts were sunk at the same time.

J. E. Rutledge, president of the Trenton Coal company, Trenton, Clinton county, organized a new company, to be known as the New Staunton Coal company. The new company is sinking two shafts, main and escapement at Livingstone, Madison county, four miles east of Staunton, Macoupin county.

county. These mines are located on a new railroad built by the Frisco and Big Four railroads. It is the intention of the company to make this mine a large producer; a number of houses have been built and a tract of land has been laid out in lots, so that miners desiring to do so may build their own houses.

The St. Louis & O'Fallon-Coal company, Belleville, St. Clair county, is sinking a new shaft two miles east of its No. 1 mine, and four miles east of French Village, St. Clair county. The Western Anthracite Coal company has bought this property. This company own their own railroad, the St. Louis & O'Fallon, from the mines to East St. Louis.

A new shaft is being sunk by the Prairie Coal company, Belleville, St. Clair county, located on the East St. Louis & Suburban Electric railroad, four miles west of O'Fallon in St. Clair county.

The old Alma mine, formerly owned by the Consolidated Coal company, of St. Louis, located on the B. & O. S-E. railroad, near O'Fallon, has been sold to Yock Bros., of Belleville. They have reopened the mine, rebuilt the tippie, engine and boiler rooms and retimbered both shafts; the intention is to put in electric motors for haulage under ground.

The coal property known as the Buxton Coal company, Buxton, Clinton county, has been sold to the Breese Coal company, Breese, Clinton county. After this company ascertained the conditions of the property a main shaft was sunk and a tippie built and the company is now ready to hoist coal, being fully equipped with direct hoisting engine and two boilers.

The Breese Coal company has also sunk a new shaft at Trenton, Clinton county, and will commence to hoist coal about the beginning of the next fiscal year.

The Borders Coal company, Marissa, St. Clair county, has sunk its No. 2 shaft two miles northeast of Marissa, located on the Illinois Central railroad.

A company organized as the Little Oak Coal company has sunk a new shaft, located on the Southern railway, six miles east of Belleville, and will commence to hoist coal the beginning of the fiscal year.

The Abbey Coal & Mining company, Collinsville, Madison county, has sunk a shaft at that place to supply local trade.

IMPROVEMENTS.

The Donk Bros. Coal & Coke company, Troy, Madison county, has put in two additional electric motors of ten tons each at its Troy mine; also two additional motors at its No. 1 mine near Collinsville.

The Mt. Olive & Staunton Coal company has placed two more electric motors in its No. 1 mine at Staunton, Macoupin county.

The Madison Coal company has sunk a new air shaft at its No. 2 mine, Glen Carbon. This makes three separate openings, which has increased the ventilation to a great extent.

The Glendale Coal Co., Belleville, St. Clair county, has put an electric motor in its No. 1 mine.

The Muren Coal & Ice Co., Belleville, St. Clair county, has installed two electric motors in its mine, New Baden, Clinton county.

The Dutch Hollow Coal Co., Freeburg, St. Clair county, has rebuilt the tippie at its mine, making it more convenient to handle a large output.

ABANDONED MINES.

The mine operated by the Clover Coal & Mining Co., New Douglas, Madison county, has abandoned its mine at that place, owing to the condition of the coal seam. It is not profitable to operate this mine.

The Millstadt Coal Co., Millstadt, St. Clair county, has abandoned its mine at that place, the coal being worked out.

The Donk Bros. Coal & Coke Co., has abandoned its mine at Belleville; the greater part of the coal seam was cut by a fault in the strata, the rock over the coal being completely washed out on account of erosion and having a clay roof, making it so that the coal could not be mined.

The Lenz Coal & Mining Co., Belleville, St. Clair county, has closed its mine at that place on account of a fire in the workings. An effort was made to put out the fire by building walls so as to surround it, but this could not be done satisfactorily, preventing the air from getting to the fire. I recommended that the mine be closed down, and the shaft hermetically sealed. After the mine had been closed for six months it was reopened, and coal was mined again for about two months, when it was found that the fire had started anew, and the shaft had to again be sealed up, and remains so at the present time.

FATAL ACCIDENTS.

July 8, 1903, Joseph Brown, miner, aged 24 years, single, employed in the Mt. Olive and Staunton Coal Co.'s mine No. 1, Staunton, Macoupin county, was killed by falling coal at the face of his room.

July 20, 1903, Peter Grosart, driver, aged 30 years, single, was killed in Donk Bros. Coal & Coke Co.'s mine No. 2 at Maryville, Madison county. He tumbled and fell in front of trip of loaded cars, and was crushed.

July 28, 1903, John Rockman, miner, aged 28 years, married, was killed by falling slate at the face of his room in the Henrietta Coal Co.'s mine No. 1, Edwardsville, Madison county. He leaves a widow and two children.

July 28, 1903, John Toroski, miner, aged 32 years, married, was killed by falling slate in the Henrietta Coal Co.'s mine No. 1, Edwardsville, Madison county. Deceased and John Rockman were killed by the same fall of slate. Toroski leaves a widow.

August 7, 1903, Henry Herpine, aged 37 years, married, was killed instantly in the Kolb Coal Co.'s mine No. 1, Mascoutah, St. Clair county. He was in the act of charging a hole, and was pushing the powder back with a scraper, in doing so the scraper struck a sulphur causing sparks which ignited the powder; an explosion occurred with the result as stated. He leaves a widow and four children.

August 29, 1903, Fred Wiesner, miner, aged 66 years, married, employed in No. 2 mine of the Hippard Coal Co., Belleville, St. Clair county, was fatally injured by a fall of slate, and died while being conveyed to his home. He leaves a widow and four children, none of whom are dependent.

September 3, 1903, Lou Boden, miner, aged 53 years, married, employed by the Royal Coal Co., Belleville, St. Clair County, to retimber a part of the escapement shaft. The fan house and part of the timber in the shaft was burned out by a fire. To retimber part of the shaft that was burned, two scaffolds were built down in the shaft; while at work on the top, one of the upper parts of the shaft, which was not secured, gave away, breaking down the scaffolds, while Boden and his partner were at work. Deceased fell to the bottom of the shaft, killing him instantly. His partner, Tom Davis, was badly injured. The depth of the shaft is 180 feet. He leaves a widow and five children.

September 14, 1903, Alfred Rurey, miner, aged 36 years, married, employed in the Royal Coal Co.'s mine, Belleville, St. Clair county, while mining a standing shot the slate overhead fell, killing him instantly. He leaves a widow and five children.

October 6, 1903, John Rohe, machinist, aged 21 years, single, employed as machine helper in the Staunton Coal Co.'s mine No. 1, Staunton, Macoupin county, was killed by falling coal at the face of a room.

October 10, 1903, Chas. Nierman, miner, aged 30 years, married, employed in the Centralia Mining & Manufacturing Co.'s mine No. 2, Centralia, Marion county. Deceased with others was engaged in putting out a fire that had occurred in the mine; the heat from the fire made the roof dangerous, part of it gave way, injuring Nierman seriously, from the effects of which he died the following day. He leaves a widow and three children.

October 13, 1903, George Faust, miner, aged 19 years, single, employed in the Ruby Coal Co.'s mine, Caseyville, St. Clair county, was killed by flying coal from a shot which he had fired. He was standing behind a pillar for safety, the shot blew through the pillar.

October 15, 1903, Joseph Bigshot, machine helper, aged 27 years, single, employed in the Madison Coal Co.'s mine No. 2, Glen Carbon, Madison county, was killed by falling clod at the face of a room.

October 20, 1903, Henry Winters, miner, aged 24 years, single, employed in the Pittenger & Davis Mining and Mfg. Co.'s mine No. 3, Centralia, Marion county. Deceased was emptying powder from a keg preparing to fill a cart on a ridge, when a spark fell from his lamp, igniting the powder, the explosion causing his death.

October 23, 1903, William Kevetz, miner, aged 60 years, married, employed in the Centralia Mining and Mfg. Co.'s mine No. 2, Centralia, Marion county, was killed by flying coal from a shot. He leaves a widow and three children.

Oct. 28, 1903, Henry Hopp, miner, aged 28 years, single, was killed instantly, in the Belleville & O'Fallen Coal Co.'s No. 1 mine, Belleville, St. Clair county. He had fired two shots and went back to fire a third, when a mass of slate and clod fell crushing him underneath.

Nov. 13, 1903, Patrick Kieff, miner, aged 65 years, married, was killed instantly by falling slate and clod in the Muren Coal & Ice Co.'s mine No. 1, Belleville, St. Clair county. He leaves a widow and seven children; the children are not dependent.

Nov. 24, 1903, William Bittenberg, driver, aged 30 years, married, employed in the Consolidated Coal Co.'s mine, Breese, Clinton county. He was bringing a trip of cars to the bottom of the shaft, and was caught between the trip and some cars that were standing on the track, killing him instantly. He leaves a widow and one child.

Dec. 4, 1903, Henry Trams, machine helper, aged 27 years, married, employed in the Staunton Coal Co.'s mine No. 1, Staunton, Macoupin county, was killed by falling coal and clod at the face of his room. He leaves a widow and two children.

Dec. 7, 1903, Wm. Needles, miner, aged 21 years, single, employed at the Lumaghi Coal Co.'s mine Collinsville, Madison county, was killed by a trip of loaded cars running over him.

Jan. 5, 1904, Peter Stieber, machine runner, aged 37 years, married, employed in the Madison Coal Co.'s mine No. 2, Glen Carbon, Madison county, was killed by falling coal at the face of his room. He leaves a widow.

Jan. 16, 1904, Fred Schoenbeck, miner, aged 62, years, married, employed in the Centralia Mining & Mfg. Co.'s mine No. 2, Centralia, Marion county, was killed by falling rock at the face of his room. He leaves a widow and two children.

Jan. 18, 1904, Ed Maloney, miner, aged 30 years, single, employed in Donk Bros. Coal & Coke Co.'s mine No. 2, Collinsville, Madison county, was killed by falling down the shaft; he was found early in the morning at the bottom of the shaft.

Feb. 2, 1904, Peter Murphy, laborer, aged 28 years, single, employed in the Pittenger & Davis Mining & Mfg. Co.'s mine No. 4, Centralia, Marion county, was seriously injured by falling rock. He was taken to a hospital at Springfield, where he died Feb. 16, 1904.

Feb. 6, 1904, E. L. Brown, miner, aged 36 years, married, employed at the Centralia Mining & Mfg. Co.'s mine No. 2, Centralia, Marion county, was killed by falling coal at the working face. He leaves a widow and one child.

Feb. 12, 1904, George Weindel, teamster, aged 37 years, married, employed by the Trenton Coal Co., Trenton, Clinton county. Deceased was sending a car load of cap pieces down the shaft, thinking that the cage was at the bottom landing, he pushed the car forward and into the shaft, the cage was not there and the car went to the bottom, taking him with it and killing him instantly. He leaves a widow and five children.

Feb. 25, 1904, J. W. Edwards, miner, aged 36 years, employed at the Borders Coal Co.'s mine No. 1, Marissa, St. Clair county. He had lit a squib to fire a shot, the shot did not explode as quickly as he thought it should and he went back for the purpose of putting in another squib, when the shot exploded seriously injuring him, and which proved to be fatal. He leaves a widow.

March 3, 1904, Geo. O. Sherer, miner, aged 25 years, single, employed in the Pittenger & Davis mine No. 3, Centralia, Marion county, was preparing to

large a shot, the cartridge lodged half way in the hole, in trying to cut it with an iron drill, to make it free, the drill caused a spark which ignited the powder, the explosion injuring him. He died March 11, 1904.

March 7, 1904, Anton Alley, machine runner, aged 31 years, single, employed at the Staunton Coal Co.'s mine No. 1, Staunton, Macoupin county, was killed by falling clod at the face of his room.

March 11, 1904, Henry Nisehwitz, miner, aged 15 years, was working with his father in the Henrietta Coal Co.'s mine at Edwardsville, Madison county. He was killed by falling clod in the face of his room.

April 11, John Sapp, top laborer, aged 56 years, married, employed at Donk's Coal & Coke Co.'s mine No. 3, Troy, Madison county. Deceased fell in the shaft with a car load of props, killing him instantly. He leaves a widow and four children.

April 29, 1904, T. F. Jolly, mine manager, aged 49 years, married, employed at the Consolidated Coal Co. at the Abbey mine No. 3, Collinsville, Madison county. While passing through the shaft bottom from one side of the shaft to the other, he was caught by a descending cage, causing his death. He leaves a widow and three children.

May 14, 1904, R. J. Noversat, driver, aged 25 years, married, employed in the Lumaghi Coal Co.'s mine No. 2, Collinsville, Madison county, was killed on a trip of loaded cars running over him. He leaves a widow.

May 18, 1904, Henry Henneman, miner, aged 25 years, married, employed at the Muren Coal & Ice Co.'s mine No. 1, New Baden, Clinton county, had his leg badly fractured by falling slate; the leg was amputated, when blood poisoning set in, causing his death 12 days afterwards. He leaves a widow.

May 29, 1904, John Scully, timberman, aged 52 years, single, employed in Donk's Coal & Coke Co.'s mine No. 3, Troy, Madison county, was killed while engaged in taking down some slate which fell on him.

June 16, 1904 John Cullen, miner, aged 32 years, married, employed in the McK Bros. Coal & Coke Co.'s mine No. 2, Collinsville, Madison county, while firing a shot it exploded, killing him. He leaves a widow and two children.

The tables of fatal and non-fatal accidents follow, also the tables of all the deaths in the district, by counties.

Respectfully submitted,

JOHN DUNLOP,
State Inspector of Mines, Sixth District, Centralia, Ill.

Fatal Casualties—Sixth District—July 1, 1904.

Date.	NAME.	Age.	Occupation.	Married.	Widow.	Children.	Single.	Dependent.	Cause of accident.
1903									
July	8 Jos. Brown	24	Miner.				1		Falling coal..
	20 Peter Grasart	30	Driver.				1		Falling under pit car.
	28 John Rockman.	28	Miner	1	1	2		3	Falling slate
	28 John Torosky	32	Miner	1	1			1	Falling clod
Aug.	7 Henry Herpine	37	Miner	1	1	4		5	Premature blast..
	29 Fred Wiesner	66	Miner.	1	1	4		5	Falling slate
Sept.	8 Lou Boden	53	Miner	1	1	5		6	Falling down shaft
	14 Alfred Rurey	36	Miner	1	1	5		6	Falling slate
Oct.	6 John Rohe	21	Machinist				1		Falling clod
	10 Chas. Neirman.	30	Miner	1	1	2		3	Falling rock..
	18 Geo. Faust	19	Miner				1		Flying coal
	15 Joseph Blgshot.	27	Mach. helper				1		Flying clod..
	20 Henry Winters	24	Miner				1		Powder explosion.
	23 Wm. Keretz	60	Miner.	1	1	2		3	Premature blast..
	28 Henry Hopp	28	Miner				1		Falling slate
Nov.	13 Patruk Kieff	65	Miner	1	1			1	Falling slate
	24 Wm. Bitlenberg.	30	Driver.	1	1	1		2	Pit cars.....
Dec.	4 Henry Trams.	27	Mach. helper	1	1	2		3	Falling coal..
	7 Wm. Needles	21	Driver.				1		Pit car.
1904									
Jan.	5 Peter Stieber	37	Mach. runner	1	1			1	Falling coal..
	16 Fred Schroebeck	62	Miner	1	1	1		2	Falling rock..
	18 Ed. Maloney	30	Miner				1		Falling down shaft
Feb.	2 Peter Murphy	28	Laborer				1		Falling rock..
	6 E. L. Brown	36	Miner	1	1	1		2	Falling coal..
	12 Geo. Weindel	37	Teamster..	1	1	5		6	Falling down shaft.
	25 J. W. Edwards	36	Miner	1	1			1	Premature blast..
Mar.	8 Geo. P. Scherer.	25	Miner				1		Premature blast
	7 Anton Alley.	31	Mach. runner				1		Falling coal
	11 Henry Nischwitz.	15	Miner				1		Falling clod..
Apr.	11 John Sapp	56	Laborer.....	1		4		4	Falling down shaft
	29 T. F. Jolly	49	Mine mgr.	1	1	2		3	Descending cage
May	14 R. J. Noversat..	25	Driver.	1	1			1	Pit car..
	18 Hen'y Henneman	25	Miner	1	1			1	Falling slate.
	29 John Scully.....	32	Timber man				1		Falling shale..
June	18 John Cullen	32	Miner	1	1	2		3	Premature blast..
	Total, 35			21	20	42	14	62	

Recapitulation of Fatal Casualties—Sixth District—July 1, 1904.

RESIDENCE.	No.	Occupation.	No.	Nature of Casualty.	No.	Colliery.	No.
Belleville..	5	Drivers.	3	Descending cage..	1	Bellev. & O'Fall. C. Co	1
Breese	1	Laborers.....	2	Falling coal.	5	Bordens Coal Co.	1
Caseyville	1	Machinist	1	Falling clod.....	3	Centralia M. & M. Co	1
Centralia.	6	Mach. helper.	2	Falling down shaft	4	Cons. Coal Co	1
Central City	1	Mach. runner.	2	Falling rock..	8	Donk Bros. Coal Co	1
Collinsville	3	Mine mgr	1	Falling slate	7	Henrietta Coal Co	1
Edwardsville..	3	Miners	21	Fall'g under pit car	1	Hippard Coal Co	1
Glen Carbon.	2	Teamster	1	Flying coal.	1	Kolb Coal Co	1
Marissa	1	Timberman.	1	Flying clod.	1	Lumaghi Coal Co.	1
Maryville	3			Pit cars.....	3	Madison Coal Co	1
Mascatah	1			Powder explosion	1	Muren Coal Co	1
Reebs Station.	1			Premature blast..	5	Pittenger & Davis M. & M. Co	1
Staunton.....	4					Royal Coal Co.	1
Trenton.....	1					Ruby Coal Co.	1
Troy	2					Staunton Coal Co	1
						Trenton Coal Co	1
Totals	35		35		35		35

1000-Fatal Casualties Sixth District—July 1, 1904.

Date.	NAME.	Age.	Occupation.	Residence. (Town.)	Name of mine.	Married.	Single.	Children.	No. persons dependent.	Character of injury and cause of accident.	Time lost— days.
July	3 Samuel Marsh	55	Miner	Belleville	Murren	1		7	7	Foot fractured, caught under tie.	30
	14 Adolph Leaser	43	Mine mgr	Belleville	Lake Superior	1		7	7	Arm fract'd, body injured, boiler exp'n	40
	17 Thos Abernathy	26	Miner	Centralia	C. M. & M. Co.	1				Back injured, falling clod	30
	20 John Schaur	25	Miner	Belleville	Madison		1			Collarbone and ribs fract'd, falling coal	30
	27 Frank Kane	31	Miner	Odin	Odin		1			Foot injured, falling coal	30
	29 Jacob Conroy	72	Miner	Belleville	Lake Superior		1			Leg broken, flying coal	30
Aug.	31 Luther Jones	16	Miner	Central City	Pittenger & Davis	1					
	3 A. J. Haines	20	Driver	Centralia	Mining Co.		1			Body injured internally, falling rock	60
	4 John Hlisch	27	Driver	Rentchler	C. M. & M.		1			Leg broken, pit car	50
	7 David Camer	39	Cager	Centralia	Kentchler	1		1	1	Collarbone broken, pit cars	30
	11 Benjamin Drenton	32	Miner	German town	Cent. M. M. Co	1		5	5	Body injured, timber falling down shaft	30
	13 Henry Beilman	21	Miner	Breese	Breese	1		1	1	Back injured, falling slate	30
Sept.	17 A. Perry	24	Driver	Odin	Odin	1		1	1	Leg broken, flying coal	60
	17 William Woodrow	37	Miner	Lebanon	Bennet.	1		4	4	Neck injured, pit cars	30
	19 K. W. Hoetnhaus	18	Driver	Centralia	C. M. & M.	1		1	1	Ribs fractured, falling roof	30
	23 Willis Fountain	69	Trimmer	Centralia	C. M. & M.	1		9	9	Leg and collarbone broken, pit cars	60
	28 Charles Hanecker	46	Miner	Centralia	P. & D. Co.	1		2	2	Foot broken, railroad car door	60
	2 Hy Nischans	26	Miner	Belleville	Hippard	1		1	1	Head injured, falling coal	30
Oct.	3 Thos. Davis	25	Miner	Belleville	Royal	1		2	2	Leg broken, falling clod	60
	28 Charles Browning	22	Miner	Freeburg	St Clair	1		1	1	Body injured, falling down shaft	30
	28 John Browning	18	Miner	Freeburg	St Clair	1		1	1	Face burned, powder explosion	30
	28 A. Taylor	20	Driver	Troy	Donk's		1			Foot injured, powder explosion	30
	7 Frank Martin	32	Driver	Edwardsville	Henrietta	1		2	2	Foot injured, falling clod	30
	7 John Track	24	Miner	Edwardsville	Henrietta	1		1	1	Leg broken, falling clod	30
Nov.	7 Fred Witherspoon	23	Driver	Belleville	Walnut Hill	1		1	1	Leg injured, pit cars	30
	8 Elmer Tadlock	26	Driver	Odin	Odin	1		1	1	Back injured, mining machine	30
	9 Erwin Sims	43	Miner	New Baden	Murren	1		5	5	Foot injured, pit cars	60
	14 William Hembold	18	Driver	Richland	Richland	1		1	1	Leg broken, falling coal	60
	14 John T. Jones	38	Driver	Bennet	Bennet	1		1	1	Leg broken, pit cars	70
	14 Ed. Monroe	38	Miner	Lebanon	Bennet	1		5	5	Ankle broken, falling slate	40
Nov.	14 Simon Meyer	43	Miner	Belleville	Bennet	1		1	1	Ankle broken, falling clod	45
	23 J. Eberline	21	Miner	Worden	K. & Donnewald	1		1	1	H'd and shoulders injured, falling clod	30
	3 Louis Hubbard	26	Miner	Glen Carbon	Madison		1	1	1	Thumb cut off by axe	30
	14 August Kneis	19	Driver	Breese	Breese		1	1	1	Leg broken, coal falling from car	50

Non-Fatal Casualties—Continued.

Date.	NAME.	Age	Occupation.	Residence. (Town.)	Name of mine.	Married.	Single.	Children.	No persons dependent.	Character of injury and cause of accident.	Time lost— days.
Nov.	19 J. Hendricks	36	Machine help.	Collinsville	Con. C. C.	1	1	1	1	Leg broken, falling coal	60
Dec.	24 Charles Webb	22	Driver	Centralia	C. M. & M.	1	1	1	1	Collarbone broken, pit car	40
	4 Howard Ritehner	18	Spragker	Trenton	Breese	1	1	1	1	Collarbone broken, pit car	40
	10 T. Donaldson	24	Driver	Breese	Breese	1	1	1	1	Leg broken, under pit car	105
	14 Burt Roddick	18	Driver	Staunton	DeCamp	1	1	1	1	Toe cut off, coal box	40
	17 John Groom	46	Mine mgr.	Belleville	Green Mountain	1	1	1	1	Leg broken, pit cars	60
	26 Fred Dennis	17	Driver	Edwardsville	Madison	1	1	1	1	Collarbone broken, pit cars	42
	28 Chas. Hurlbrink	25	Cager	O'Fallon	Con. C. Co.	1	1	1	1	Hand injured, caught in wheel	42
	28 James Distler	20	Driver	Edwardsville	O'Fallon	1	1	1	1	Body injured, pit cars	30
	31 Andy Hidy	26	Miner	Collinsville	Con. C. Co.	1	1	1	1	Leg broken, falling slate	60
	31 Thos. Loeffler	38	Driver	Marissa	Johnson	1	1	1	1	Collarbone broken, kicked by mule	30
1904	8 E. C. Overman	35	Timberman	Troy	Donks	1	1	1	1	Ankle dislocated, hip injured, falling clod	60
Jan.	8 B. Killore	25	Miner	Troy	Donks	1	1	1	1	Head injured, flying coal	30
	12 John Bartle	46	Timberman	Breese	Breese	1	1	1	1	Ankle broken, falling rock	95
	16 Michael Toth	20	Loader	Staunton	DeCamp	1	1	1	1	Back and hips injured, falling clod	30
	18 Joseph Johnson	35	Miner	Donkville	Donks	1	1	1	1	Back injured, falling clod	30
	20 Edwin Reilly	20	Driver	Sorento	Sorento	1	1	1	1	Internally injured, pit cars	105
	27 Arthur Goodall	26	Driver	Belleville	Glendale	1	1	1	1	Leg injured, pit cars	90
Feb.	2 Jacob Gittlerman	30	Trackman	Central City	P. & S. Co.	1	1	1	1	Back injured, falling rock	90
	6 Fred Schultz	25	Miner	Mascoutah	Kolb	1	1	1	1	Ribs fractured, body bruised, falling coal	90
	10 James Moore	30	Loader	Odin	Odin	1	1	1	1	Foot injured, falling coal	60
	10 Nick. John	37	Miner	Worden	Kerns	1	1	1	1	Hand injured, falling slate	60
	15 Elmer Lively	19	Driver	Freeburg	St. Clair	1	1	1	1	Collarbone broken, pit cars	60
	22 William Narukes	27	Miner	Centralia	P. & D. Co.	1	1	1	1	Hand injured, falling rock (amputated)	60
	24 Peter Gifline	40	Miner	Central City	P. & D. Co.	1	1	1	1	Face and hands burned, shot explosion	30
	10 Caleb Rettenhaus	24	Trimmer	Belleville	Oakland	1	1	1	1	Ankle broken, car door	40
Mar.	11 J. A. Lagone	28	Miner	Belleville	Glendale	1	1	1	1	Ankle fractured, falling clod	40
	18 George Wiesl	38	Driver	Freeburg	Dutch Hollow	1	1	1	1	Collarbone broken, pit cars	40
	24 William Scully	24	Timberman	Troy	Donks	1	1	1	1	Body injured, pit cars	42
	28 George Duznoes	44	Mch. run	Staunton	Staunton	1	1	1	1	Leg broken, small bone, falling prop.	30
	28 Fred Ruecker	37	Miner	Belleville	St. L. & O. F.	1	1	1	1	Leg injured, falling clod	30
April	12 Benj. Mulligan	21	Driver	Breese	Breese	1	1	1	1	Foot crushed, pit car	30
	16 Henry Greening	36	Miner	Breese	Breese	1	1	1	1	Shoulder injured, falling coal	30
	30 Henry Koltmann	35	Laboret.	Breese	Breese	1	1	1	1	Collarbone broken, R. R. cars	60

NAME	DATE	TIME	PLACE	REASON	DATE	TIME	PLACE	REASON	DATE	TIME	PLACE	REASON
May	25	10:00	Odin	Mch. run	1	1	1	1	1	1	1	1
	26	10:00	Odin	Loader	1	1	1	1	1	1	1	1
	28	10:00	Freeburg	Miner	1	1	1	1	1	1	1	1
	30	10:00	Sandoval	Miner	1	1	1	1	1	1	1	1
	31	10:00	Centralia	Laborer	1	1	1	1	1	1	1	1
June	1	10:00	Sandoval	Miner	1	1	1	1	1	1	1	1
	2	10:00	Centralia	Teamster	1	1	1	1	1	1	1	1
	3	10:00	Belleville	Mch. helper	1	1	1	1	1	1	1	1
	6	10:00	Maryville	Miner	1	1	1	1	1	1	1	1
	14	10:00	Glen Carbon	Laborer	1	1	1	1	1	1	1	1
	20	10:00	Marissa	Miner	1	1	1	1	1	1	1	1
	29	10:00	Sandoval	Cager	1	1	1	1	1	1	1	1
	30	10:00	Centralia	Laborer	1	1	1	1	1	1	1	1
				Totals	47	34	123	104				

* Not recovered or working July 1, 1904.

	1904	1905
Total number injured	81	3,882
Not recovered or working July 1, 1904	6	59
Recovered June 30, 1904	75	
Total days lost by men recovered		
Average days lost per man		

Recapitulation of Non-Fatal Casualties—Sixth District—1904.

Residence.	No.	Occupation.	No.	Cause of Accident.	No.	Colliery	No.
Belleville	14	Cagers	3	Ax	1	Bennet Coal Co....	3
Bennet	1	Drivers	22	Boiler explosion ..	1	Breese Coal Co	1
Breese	7	Laborers	4	Car door (R. R.) ..	3	Centralia M. & M. Co.	3
Centralia	11	Louder	3	Cage wheel	1	Consolidated Coal Co	1
Central City ..	3	Machine help ..	2	Cage descending ..	1	DeCamp Coal Co ...	1
Collinsville ..	2	Machine run ..	2	Coal box	1	Donk Bros. Coal Co	1
Donkville	1	Miners	35	Falling coal	11	Dutch Hollow Coal Co	11
Edwardsville ..	4	Mine m'grs.	2	Falling clod	11	Enterprise Coal Co ...	11
Freeburg	5	Spragger	1	Falling coal fr'm car	1	Germantown Coal Co	1
Germantown ..	1	Teamster	1	Falling down shaft ..	2	Glendale Coal Co	2
Glen Carbon ..	2	Timbermen	3	Falling prop	1	Henrietta Coal Co	1
Lebanon	2	Trackman	1	Falling rock	5	Hippard Coal Co	5
Marissa	2	Trimmers	2	Falling roof	1	Johnson Coal Co	1
Maryville	1			Falling slate	9	Kerns Doonewald C	9
Mascoutah	1			Flying coal	3	Co.	3
New Baden	1			Mining machine ..	1	Kolb Coal Co	1
Odin	6			Mule kick	2	Lake Superior C. Co	2
O'Fallon	1			Pit cars	21	Madison Coal Co ...	21
Reutchler	1			Powder explosion ..	2	Marissa Coal Co ...	2
Richland	1			Shot explosion	2	Murren Coal Co..	2
Sandoval	3			Tie	1	Oak Hill Coal Co	1
Sorento	1					Oakland Coal Co...	
Staunton	3					Odin Coal Co	
Trenton	1					O'Fallon Coal Co..	1
Troy	4					Pittenger & Davis M	
Worden	2					Co.	
						Richland Coal Co	
						Royal Coal Co	
						St. Clair Coal Co ...	
						St. Clair & O'Fallon	
						Coal Co.	
						Sandoval Coal Co	
						Sorento Coal Co...	
						Staunton Coal Co	
						Sunlight Coal Co..	
						Trenton Coal Coal	
						Walnut Hill Coal Co	
Total	81		81		81		81

Showing the Nature of Injuries, Number of Persons Injured, Dependents, Time Lost with Averages and Percentages—1, 1904.

NATURE OF INJURIES.	Number.	Married.	Single.	Dependents.	TIME LOST.		Per cent of injuries.
					Total days.	Average days.	
Struck by falling object.	4	3	1	15	223	56	4.94
Struck by falling object.	22	22	.....	3	140	70	2.47
Struck by falling object.	22	1	1	3	70	35	2.47
Struck by falling object.	22	22	.....	11	130	65	2.47
Struck by falling object.	5	3	2	12	60	12	6.18
Struck by falling object.	9	6	3	23	370	41	11.11
Struck by falling object.	9	3	6	3	482	54	11.11
Struck by falling object.	1	1	.....	1	90	90	1.23
Struck by falling object.	3	1	2	4	90	30	3.71
Struck by falling object.	1	1	.....	4	30	30	1.23
Struck by falling object.	2	2	.....	10	90	45	2.47
Struck by falling object.	6	2	4	3	320	53	7.41
Struck by falling object.	3	1	2	2	132	44	3.70
Struck by falling object.	5	4	1	15	190	38	6.18
Struck by falling object.	17	10	7	26	1,015	60	21.00
Struck by falling object.	1	.....	1	.....	60	60	1.23
Struck by falling object.	3	1	2	6	150	50	3.70
Struck by falling object.	1	1	.....	2	50	50	1.23
Struck by falling object.	2	1	1	5	90	45	2.47
Struck by falling object.	1	1	.....	2	30	30	1.23
Struck by falling object.	1	.....	1	.....	30	30	1.23
Struck by falling object.	1	1	.....	7	40	40	1.23
Averages and percentages.	■	47	34	164	3,382	51.8	100.00

Bond County—Sixth District—1904.

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE—				
			Total.	Mine run.	Lump.	Egg.	Nut.
	SHIPPING MINES,						
1	Sorento.....	Sorento.....	176,116	1,869	125,451	.....	1,256
	Totals.....	.....	176,116	1,869	125,451	.....	1,256

Mines in 1903—1.
Mines in 1904—1.

Clinton County—Sixth District—1904.

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE—				
			Total.	Mine run.	Lump.	Egg.	Nut.
	SHIPPING MINES.						
1	Breeze Coal Co.....	Breeze.....	271,667	162,501	45,830	.....	.....
2	Consolidated Coal Co.....	Breeze.....	174,807	133,869	28,129	.....	.....
3	Muren Coal & Ice Co.....	New Baden...	170,469	.....	102,763	.....	20,372
4	Trenton Coal Co.....	Trenton	149,816	.....	98,135	12,649	9,726
5	Consolidated Coal Co.....	Trenton	86,768	338	58,705	.....	.....
6	Germantown Coal Co.....	Germantown..	71,988	44,910	12,159	2,059	2,450
	Totals.....	.....	925,515	341,613	345,721	14,708	32,548

Mines in 1903—6.
Mines in 1904—6.

Bond County—Sixth District—Concluded.

Ys.	Slack or waste.	Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT				Days of active operation.	Tons mined by hand.	Number.
			Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
	489	\$224,290	166	83	249	166,387	.....	2,836	6,899	200	109,263	1
	489	\$224,290	166	83	249	166,387	.....	2,836	6,899	200	109,263	

TE—Price paid for hand mining from July 1, 1903 to April 1, 1904, \$0.55; from April 1, July 1, 1904, \$0.52. Average price for year \$0.5425 per ton.

Clinton County—Sixth District—Concluded.

Ys.	Slack or waste.	Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
			Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
	22,248	\$239,350	140	48	188	227,287	36,000	6,000	2,400	250	271,667	1
		143,322	150	45	195	167,027	.....	1,788	5,992	138	174,807	2
	24,558	143,069	140	71	211	157,968	.....	2,400	10,131	150	.....	3
	11,983	155,757	140	80	220	128,068	.....	10,049	13,699	230	.....	4
		118,739	80	57	137	72,016	.....	3,957	10,795	156	.....	5
	5,350	62,006	65	25	90	62,438	.....	4,200	5,350	238	71,988	5
	64,139	\$867,843	715	326	1,041	812,874	36,000	28,394	48,367	194	518,462	

RE—Price paid for hand mining at Breese Coal Co. and Consolidated Coal Co. at Breese July 1, 1903 to April 1, 1904 \$0.55; from April 1, 1904 to July 1, 1904, \$0.53.
 mantown Coal Co., from July 1, 1903 to April 1, 1904, \$0.60; from April 1, 1904 to July 1, 57. Average for year \$0.5494 per ton.
 e paid for machine mining at Trenton Coal Co., and Consolidated Coal Co., Trenton July 1, 1903 to April 1, 1904 \$0.55; from April 1, 1904 to July 1, 1904 \$0.52.
 e paid for machine mining at Muren Coal and Ice Co., from July 1, 1903 to April 1, 55; from April 1, 1904 to July 1, 1904, \$0.48. Average price paid for machine mining for 5363 per ton.

Madison County—Sixth District—1904.

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE.				
			Total.	Mine run.	Lump.	Egg.	Nut.
SHIPPING MINES.							
1	Donk Bros. Coal & Coke Co. No. 1	Collinsville.	475,179	55,629	291,683	1,701	7
2	Donk Bros. Coal & Coke Co. No. 2	Collinsville.	390,017	53,478	216,787	18,103	12
3	Staunton Coal & Mining Co. No. 1	Staunton	315,833	83,419	157,065	4,635	21,339
4	Donk Bros. Coal & Coke Co. No. 3	Troy	291,302	44,459	150,228	8,696	2,63
5	Madison Coal Co. No. 4.	Glen Carbon.	245,736	47,086	139,704	...	9,90
6	Lumaghi Coal Co. No. 2	Collinsville.	232,820	8,948	154,801	4,176	4,00
7	Madison Coal Co. No. 2.	Glen Carbon.	225,412	11,059	159,885	...	4,23
8	Madison Coal Co. No. 3.	Edwardsville..	121,186	3,122	85,487	39	...
9	Kerns-Donniewald Coal Co. No. 1	Worden.	190,015	49,964	102,632	...	10,34
10	Consol. Coal Co. (Heinz Bluff)	Collinsville.	119,101	58,416	68,557	...	...
11	Consol. Coal Co. (Abbey No. 3)	Collinsville.	131,002	45,968	63,928	...	...
12	Henrietta Coal Co. No. 1	Edwardsville..	68,484	...	46,207	...	13,60
13	Consol. Coal Co. (Brookside)....	Troy	45,058	197	29,476	...	...
14	Lumaghi Coal Co. No. 8...	Collinsville.	39,649	38,875	83	24	5
15	DeCamp Coal Mining Co. No. 1	Staunton.....	38,850	8,500	16,500	1,800	3,13
16	Interstate Coal Mining Co. No. 1	Worden.....	27,353	18,929	5,004	...	1,24
Totals			2,986,967	526,073	1,687,027	39,174	73,40

LOCAL MINES.							
1	Edw'sville Home Trade Coal Co	Edwardsville.	10,540	154	7,725		44
2	Bullock Bros. Coal Co.	Collinsville.	7,162		5,131		1,37
3	Perry Meyer	Bethalto.	5,000		5,000		
4	George Kabel.	Moro.	2,644		2,644		
5	James Hill.	Fosterburg.	2,240		2,240		
6	Frank Eccles.	North Alton.	2,000		2,000		
7	W. F. Backs.	Carpenter.	1,363		1,363		
8	Peter Sydal	North Alton.	1,079		1,079		
9	John Spencer.	Bethalto.	716		716		
10	George Raines.	North Alton.	1,175		1,130		
11	Fred Haucke.	Fosterburg.	1,120		1,120		
12	Herman & Housman.	Fosterburg.	800		800		
13	Abbey Coal Co. No. 1.	Collinsville.	8,000		4,000		1,00
14	J. R. Richardson	Moro.	400		400		
15	Sam McDonald	Moro.	400		400		
16	F. R. Fredericks.	Upper Alton.	385		385		
17	Theo. Schmeler.	Prairie town.	370		370		
18	Henry Golike.	Fosterburg.	320		320		
19	Oscar Meyer.	North Alton.	209		209		
Totals			49,925	154	37,034		2,81
Totals—35 mines			3,036,892	526,227	1,724,061	39,174	81,59

Mines in 1903, 31.
 New mines, 7.
 Abandoned mines, 3.
 Mines in 1904, 35.

Madison County—Sixth District—1904—Concluded.

Tons. of screenings.	Slack or waste.	Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
			Average number of miners.	All other employees.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
069	...	\$309,008	260	170	530	463,318	2,553	1,193	8,115	264	475,179	1
513	...	328,911	230	152	382	378,909	...	1,525	9,583	249	68,498	2
609	35,807	278,845	206	102	308	300,396	6,990	2,417	6,050	222	...	3
084	...	297,592	244	148	392	280,812	...	3,682	6,806	246	291,302	4
890	31,147	212,306	178	63	243	227,330	3,370	72	14,964	232	...	5
166	18,041	193,019	140	78	213	229,379	...	...	3,441	240	...	6
942	16,253	205,484	165	70	235	209,220	...	3,977	12,215	240	...	7
488	...	112,691	100	55	155	106,638	979	5,553	7,868	261	2,947	8
125	...	219,727	165	57	222	180,747	...	5,268	4,000	256	...	9
096	...	124,865	76	48	124	139,202	...	2,360	7,539	173	...	10
106	...	107,533	73	77	152	88,467	25,007	7,402	10,126	171	...	11
776	...	59,695	48	19	67	59,182	...	7,085	2,217	218	18,911	12
383	...	44,615	42	27	69	40,168	...	1,761	3,129	153	45,056	13
24	585	35,149	40	33	73	39,063	...	...	586	200	...	14
900	...	34,578	26	19	54	36,700	...	200	1,950	200	4,000	15
16	...	26,629	40	18	58	25,574	...	126	1,653	142	21,883	16
361	101,833	\$2,650,047	2,144	1,133	3,277	2,805,105	38,899	42,721	100,242	217	927,778	

NOTE—Price paid for hand mining, shipping mines, from July 1, 1903, to April 1, 1904, \$0.55; from April 1, 1904, to July 1, 1904, \$0.52; average price for year, \$0.5425 per ton. Price paid for machine mining, shipping mines, from July 1, 1903, to April 1, 1904, \$0.48; from April 1, 1904, to July 1, 1904, \$0.45; average price for year, \$0.4725 per ton.

2,217	...	\$14,821	15	9	24	...	...	9,640	900	300	10,540	1
664	...	11,196	6	4	10	...	...	6,498	664	289	7,162	2
...	...	7,500	6	1	7	...	...	5,000	...	200	5,000	3
...	...	3,986	6	1	7	...	...	2,644	...	200	2,644	4
...	...	3,360	5	1	6	...	...	2,240	...	200	2,240	5
...	...	4,000	7	1	8	...	...	2,000	...	240	2,000	6
...	...	2,048	3	1	4	...	...	1,365	...	200	1,365	7
...	...	1,883	7	1	8	...	...	1,079	...	200	1,079	8
...	...	1,074	2	1	3	...	...	716	...	200	716	9
45	...	2,298	9	3	12	...	...	1,175	...	200	1,175	10
...	...	1,680	5	1	6	...	...	1,120	...	200	1,120	11
...	...	1,200	4	1	5	...	...	800	...	150	800	12
1,000	...	10,000	6	6	11	...	...	5,000	1,000	200	6,000	13
...	...	600	3	1	4	...	...	400	...	200	400	14
...	...	600	3	2	5	...	...	400	...	200	400	15
...	...	770	2	1	3	...	...	385	...	95	385	16
...	...	555	3	1	4	...	...	370	...	150	370	17
...	...	480	4	1	5	...	...	320	...	75	320	18
...	...	418	2	1	3	...	...	209	...	70	209	19
926	...	\$68,449	98	37	135	...	...	41,361	2,584	203	43,925	
1,287	101,833	\$2,749,096	2,242	1,170	3,412	2,805,105	38,899	42,721	102,806	...	971,708	

NOTE—Average price paid for hand mining, local mines, \$0.7472 per ton.

Marion County—Sixth District—1904.

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINES.				
			Total.	Mine run.	Lump.	Egg	Nut.
SHIPPING MINES.							
1	Pittenger & Davis, Nos. 3-14.....	Centralia...	431,247	80,944	235,447	...	11,000
2	Central Mining & Mfg. Co., No. 2	Centralia..	243,171	5,931	172,298	...	11,000
3	Odin Coal Co., No. 1	Odin	211,174	211,174	.....	...	...
4	Sandoval Coal Co., No. 1	Sandoval..	182,543	76,209	74,434	.....	...
5	Kinmundy Coal Co., No. 1.....	Kinmundy.	10,745	1,050	6,455	...	...
6	Salem Coal Co., No. 1.	Salem....	4,854	4,854	.....	...	...
Totals.....			1,083,734	360,162	488,632	...	21,000

Mines in 1903, 6.
Mines in 1904, 6.

Marion County—Sixth District—Concluded.

IN TONS.		Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
Pea or screenings.	Slack or waste.		Average number of miners	All other employes.	Total	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
77,164	46,600	\$376,045	305	159	464	279,862	102,637	20,353	23,396	250	431,247	1
27,505	21,015	228,102	183	117	302	152,541	69,477	14,829	6,324	235	243,171	2
...	...	206,960	153	85	240	200,086	...	4,512	6,576	265	...	3
31,900	...	177,228	150	70	220	176,903	...	1,980	3,660	249	182,543	4
3,240	...	9,596	23	19	42	7,084	...	1,894	1,767	150	10,745	5
...	...	5,825	8	6	14	570	...	2,939	1,945	100	4,834	6
129,809	87,615	\$1,003,746	826	456	1,282	817,046	172,114	46,507	48,067	208	872,500	

NOTE—Price paid for hand mining, \$0.49, \$0.50 and \$0.55; average price for year, \$0.4961 per ton. Price paid for machine mining, \$0.43 per ton.

St. Clair County—Sixth District—1904.

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF			
			Total.	Mine run.	Lump.	Exp.
SHIPPING MINES.						
1	St. Louis & O'Fallon C. Co., No. 1	Belleville..	318,579	318,579		
2	Royal Coal & Mining Co., Royal	Belleville..	172,442	62,420	83,436	
3	Muen Coal & Ice Co., No. 1..	Belleville..	150,771	150,771		
4	Walnut Hill Coal Co., Avery	Belleville..	115,457		88,897	
5	Kolb Coal Co., No. 1	Mascoutah..	114,440	43,039	52,388	
6	Superior Coal & Min. Co., No. 1	Belleville..	109,199		82,924	
7	Madison Coal Co., No. 7	Belleville..	101,883	7,828	69,747	
8	Joseph Taylor Coal Co., (Taylor)	O'Fallon..	93,602	71,687	14,657	
9	Glendale Coal & Min. Co., No. 1	Belleville....	92,000		70,500	
10	Mo. & Ill. Coal Co., (Rentschler)	Belleville..	91,337	33,471	45,268	
11	Dutch Hollow C. Co., (Oakland)	Belleville..	87,428	4,313	56,335	
12	Borders Coal Co., No. 1	Marissa....	86,030	18,240	47,460	
13	Kolb Coal Co., (Vinegar Hill)	Mascoutah..	80,590		66,507	
14	Valley Coal & Min. Co., (Birkner)	East St. Louis	80,000		56,000	
15	Daniel Tildorpt., (Marissa)	Marissa....	78,329	26,584	39,527	
16	Joseph Taylor Mentor)	O'Fallon..	75,013	4,875	49,280	
17	Oak Hill Coal Co.	Belleville..	73,959	2,687	56,794	
18	Eureka Coal Co., (Eureka)	Marissa....	71,265	32,236	30,012	
19	Dutch Hollow Coal Co., (Randle)	Freeburg..	69,255	2,179	52,012	
20	Summit Coal Co.	Belleville....	68,900	25,000	35,200	
21	Fire Coal & Mining Co.	Lenzburg....	67,362		50,421	
22	Belleville & O'Fallon Coal Co..	Belleville..	66,992		52,023	
23	Lebanon Coal & Mining Ass'n	Lebanon..	60,793		42,460	4.1%
24	The O'Fallon Coal & Mining Co. (Darrow)	O'Fallon..	57,979	9,726	28,864	1.9%
25	Consolidat'd Coal Co (Shureman	Belleville..	57,451	4,031	40,494	
26	Johnson Coal Co., O. K.	Marissa....	52,652	10,568	34,996	
27	George Hippard, No. 1.	Belleville..	49,544	6,352	31,550	
28	Joseph Guest & Sons	Belleville..	48,758	48,758		
29	Wm. Ratican, Ruby	Caseville..	48,700	10,300	27,500	
30	Mo. & Ill. Coal Co., Wilderman	Belleville..	48,688	7,061	26,614	
31	Consolidated C. Co., (Green Mt.)	Belleville..	48,676	5,113	33,063	
32	Consolidated C. Co., (White Oak)	Marissa....	48,363	36,314	4,753	
33	Consolidated Coal Co., Gartske, No. 4	Belleville..	45,938	4,121	32,080	
34	Mo. & Ill. Coal Co., St. Clair.	Belleville..	45,042	9,469	24,512	
35	Highland Coal Co.	Belleville..	36,458		24,768	
36	Lake Superior Coal Co., Branch	Belleville..	33,734		25,014	
37	Enterprise Min. Co., (Rentschler)	Rentschler..	33,600	11,500	20,000	
38	George Hippard (Walnut Valley)	Belleville..	31,617	7,337	19,896	
39	Dutch Hollow C. Co., (Advance)	Marissa....	30,864	4,562	19,854	
40	Glendale Coal & Min. Co., No. 2.	Belleville..	30,650		26,100	
41	Skeller Coal Co.	Belleville..	30,000	5,000	24,000	
42	Humboldt Coal Co.	Belleville..	30,000		25,000	
43	Sunlight Coal Co.	Freeburg..	29,925	134	21,815	
44	Consolidated Coal Co., Richland	Belleville..	25,886	16,717	5,757	
45	Lenz Coal & Min. Co., Harmony	Belleville..	19,683	5,117	10,982	
46	Donk Bros Coal & Coke Co.	Belleville..	18,512	10,925	4,780	
47	Pittsburg Mining Co.	Belleville..	16,680		15,900	
48	Consolidated Coal Co., Rose Hill	Belleville..	16,148		12,289	
49	Fred Murphy	Belleville..	16,000	16,000		
50	Millstadt Coal Co.	Millstadt..	15,000		12,000	
51	Joseph Taylor, St. Ellen	O'Fallon..	10,980	10,980		
52	Dutch Hill Coal Co.	New Athens	10,000		8,000	
53	Lenz Coal & Min. Co., (Shiloh)	Belleville..	8,820	8,220		
54	Chas. Hortmann	Belleville..	25,885		19,000	
55	Beatty Coal Co.	Mascoutah..	4,704	4,704		
Totals ..			3,351,666	1,068,438	1,723,927	5.96

NOTE—Price paid for hand mining, shipping mines, from July 1, 1903, to April 1, 1904, \$0.55; from April 1, 1904, to July 1, 1904, \$0.52; average price for year, \$0.5425 per ton.

St. Clair County—Sixth District—Continued.

Slack or waste.	Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
		Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
	238,934	170	61	231	314,979	1,856	20	1,724	250	318,579	1
	153,423	130	27	157	168,442			9,000	250	17,680	2
	123,024	120	66	186	140,579	8,461	3,292	7,439	250	159,771	3
	107,838	70	24	94	113,657			200	210		4
	108,229	94	28	122	67,931	35,729	6,776	4,004	235	114,440	5
	78,836	90	26	116	107,099			10,100	250		6
340	88,798	65	28	93	94,500	4,000	1,383	2,000	225	101,883	7
	72,584	72	25	97	88,282		3,640	3,680	208	95,602	8
	90,520	78	28	106	82,100		2,800	7,100	230	27,500	9
	80,892	68	19	87	88,375		282	2,680	182	91,337	10
6,053	74,630	50	18	68	83,817		630	2,681	272	20,688	11
	74,796	50	15	65	81,865		3,550	835	185	86,050	12
	78,908	65	11	76	79,890			700	140	80,590	13
	69,400	45	17	62	78,150		50	1,800	200	70,000	14
1,250	69,509	44	21	65	78,787		292	1,250	214	78,329	15
	65,924	80	85	115	68,973		1,860	4,180	168	75,013	16
	73,280	36	24	60	70,630		811	2,518	254		17
2,000	62,511	47	25	72	67,532		1,733	2,000	209	71,265	18
	62,174	50	14	64	65,218		1,278	2,762	198	69,253	19
	57,735	45	16	61	68,070		130	700	238	68,900	20
	58,024	48	20	68	65,397		665	1,800	308	67,362	21
	60,232	47	18	65	54,196		7,627	5,168	229	66,992	22
6,084	57,612	90	25	115	48,747		6,012	6,084	216		23
	53,214	37	27	64	53,485		1,851	2,643	228		24
	42,507	35	14	49	52,617		864	3,970	166		25
	48,935	43	15	58	51,215			1,437	213	52,652	26
2,457	41,741	50	20	70	47,087			2,457	225	49,544	27
	40,469	78	22	100	48,355		153	25	200	48,758	28
1,700	44,695	47	17	64	42,000		100	4,600	245	46,700	29
1,920	39,480	35	14	49	44,708		60	1,920	187	46,688	30
	35,474	25	12	37	41,956		472	4,248	161		31
	31,927	40	10	50	43,571	1,201	14	1,597	140	46,383	32
	34,158	40	10	50	40,354		337	5,247	152		33
3,269	36,513	43	12	55	41,781		12	3,269	180	45,042	34
	37,959	30	9	39	20,461	1,194	7,689	7,109	280	36,453	35
	28,417	25	9	34	33,634		1,500	600	235	35,734	36
600	27,505	18	9	27	33,000			600	282	33,600	37
1,790	28,035	45	25	70	21,408	7,565	854	1,790	272	31,617	38
	26,659	30	9	39	27,727		1,810	1,927	215	30,884	39
2,800	28,538	30	8	38	24,550		3,300	2,800	210	30,850	40
	29,500	30	8	38	28,000			2,000	150	30,000	41
	30,000	28	7	35	24,000		4,000	2,000	200	30,000	42
603	26,049	23	9	32	26,372		2,803	750	165	29,925	43
	17,736	25	10	35	24,391		14	1,481	155	25,886	44
985	18,111	50	15	65	18,668			985	95	6,322	45
	16,204	24	24	48	16,712			1,800	96	18,512	46
	13,749	17	9	26	13,400		3,000	280	250	16,680	47
	12,025	20	9	29	14,113			2,035	107		48
	12,000	12	5	17	14,000		2,000		300	16,000	49
	13,350	12	4	16	12,000		2,000	1,000	200	15,000	50
	7,686	17	12	29	9,715	263		1,000	94	10,980	51
	9,230	12	4	16	6,500		3,000	600	100	10,000	52
	8,124	15	5	20	8,220			700	120	8,920	53
	18,821	20	6	26	18,700		7,085	100	200	25,886	54
	3,293	10	3	13	4,497			207	132	4,704	55
31,801	\$2,869,417	2,621	963	3,584	3,077,418	60,271	86,049	133,958	206	2,484,139	

—Price paid for machine mining, shipping mines, from July 1, 1903, to April 1, 1904, \$0.45; average price for year, \$0.4725 per ton.

St. Clair County—Sixth District—1904—Continued.

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINES				
			Total.	Mine run.	Lamp.	Egg.	Net.
LOCAL MINES.							
1	Frank Sergeant.....	Belleville....	13,246	8,728	3,627		100
2	August Ebel.....	Belleville....	8,000		7,500		
3	James Taylor.....	Belleville....	8,000	8,000			
4	James Beatty	Mascoutah....	4,850	4,850			
5	Tower Grove Coal Co.....	Belleville....	8,000	8,000			
6	Wm. Pestor	Millstadt....	4,000	4,000			
7	John Harst.....	Belleville....	4,000	4,000			
8	J. E. Young.....	French Village	6,000	5,500			
9	Diedrich Bros.....	Freeburg....	2,000	2,000			
10	Georgetown Road Coal Co.....	Belleville....	2,500	2,500			
11	John Marshall.....	Caseyville....	2,000	2,000			
12	Fred Irwin (Grossman).....	Smithton....	975	975			
13	Benj. Johnson.....	Belleville....	777	777			
14	Geo. Schmidt.....	Millstadt....	425	425			
Totals			80,773	47,755	11,127		125
Totals 69 mines			8,418,469	1,116,193	1,735,054	5,986	111,300

Mines in 1903, 69.

New mines, 3.

Abandoned mines, 3.

Mines in 1904, 69.

St. Clair County—Sixth District—Concluded.

No.	Slack or waste.	Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
			Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
8	\$15,788	8	5	13	.....	.....	11,542	1,704	.....	13,246	1
0	11,393	8	4	10	.....	.....	7,500	500	.....	8,000	2
	9,000	5	4	9	.....	.....	8,000	.....	.....	8,000	3
	8,548	4	3	7	.....	.....	4,750	200	.....	4,850	4
	7,200	7	6	13	.....	.....	6,000	.....	.....	6,000	5
	6,000	8	2	10	.....	.....	4,000	.....	.....	4,000	6
	6,000	4	2	6	.....	.....	4,000	.....	.....	4,000	7
0	8,375	3	2	5	.....	.....	6,000	.....	.....	5,500	8
	3,000	3	1	4	.....	.....	2,000	.....	.....	2,000	9
	3,750	3	2	5	.....	.....	2,500	.....	.....	2,500	10
	3,000	3	2	5	.....	.....	2,000	.....	.....	2,000	11
	1,463	3	1	4	.....	.....	975	.....	.....	975	12
	1,165	2	1	3	.....	.....	777	.....	.....	777	13
	637	1	.....	1	.....	.....	425	.....	.....	425	14
9	\$83,281	62	35	97	.....	.....	58,469	2,304	.....	60,773	
7	51,801	\$2,932,696	2,683	998	3,681	3,077,418	60,271	144,518	136,262	.....	2,458,514	

NOTE—Price paid for hand mining, local mines, from July 1, 1903, to April 1, 1904, \$0.85; April 1, 1904, to July 1, 1904, \$0.52; ~~average~~ price for year, \$0.5425 per ton; 1,202 mined by day.

Recapitulation by Counties—

COUNTIES.	Number of shipping mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Bond....	1	166,116	1,869	125,451	...	1,256	47,051	489	\$ 224,280
Clinton	6	925,515	341,613	345,721	14,708	32,543	126,786	64,139	867,343
Madison	16	2,986,967	526,073	1,687,027	89,174	78,499	554,361	101,833	2,630,647
Marion	6	1,068,734	360,162	488,632	...	27,516	139,809	67,615	1,008,766
St. Clair.....	58	8,357,696	1,068,438	1,723,927	5,986	111,203	416,339	31,801	2,869,417
Totals and averages	84	8,530,028	2,298,155	4,370,758	59,868	251,024	1,244,346	265,877	\$7,645,448

Recapitulation by Counties—

COUNTIES.	Number of local mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Madison	■	43,925	154	37,034	.....	2,811	3,926	.....	\$3,60
St. Clair.	14	60,773	47,755	11,127	.....	103	1,788	.....	31,21
Totals and averages	33	104,698	47,909	48,161	.....	2,914	5,714	.....	\$151,20
Totals, district—all mines	117	8,634,726	2,346,064	4,418,919	59,868	253,938	1,290,060	265,877	\$7,797,718

Whole number of mines reported in 1903, 113.

Number of new mines opened during the year, 10.

Number of mines exhausted or abandoned during the year, 6.

Whole number of mines reported for 1904, 117.

Sixth District—1904—Shipping Mines.

EMPLOYEES.			DISPOSITION OF OUTPUT.				Average number of days in operation.	TONS MINED.		PRICES PAID PER TON FOR		Number of steam boilers.	Number of fans.
Number of miners.	All other employees.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mines.	Tons sold to local trade.	Tons consumed and wasted at mines.		By hand.	By machines.	Hand mining.	Machine mining.		
166	—	249	166,387	...	2,886	6,893	200	109,283	66,852	\$0.5425	\$0.34	5	1
715	326	1,041	612,754	26,000	38,264	47,397	194	513,462	467,053	0.5494	0.5383	34	6
2,144	1,133	3,277	2,605,105	38,869	42,721	100,242	217	927,778	2,059,189	0.5425	0.4725	63	11
826	456	1,282	817,046	172,114	46,507	48,067	208	372,560	211,174	0.4981	0.43	32	6
2,621	963	3,584	3,077,418	60,271	88,049	133,958	206	2,404,733	862,063	0.5425	0.4725	141	52
6,472	2,961	9,433	7,678,710	307,284	206,507	337,527	208	4,892,796	3,637,232	\$0.5362	\$0.4749	275	81

Sixth District—1904—Local Mines.

EMPLOYEES.			DISPOSITION OF OUTPUT.				Average number of days in operation.	TONS MINED.		PRICES PAID PER TON FOR—		Number of steam boilers.	Number of fans.
Number of miners.	All other employees.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at mines.		By hand.	By machine.	Hand mining.	Machine mining.		
38	33	135	.....	.....	41,361	2,564	205	43,925	.....	\$0.7472	.....	3	3
62	36	97	.....	.....	58,489	2,304	200	60,773	.....	0.5425	.....	7	4
160	72	232	.....	.....	99,830	4,868	205	104,698	.....	\$0.6283	.....	10	5
6,632	3,033	9,665	7,678,710	307,284	306,337	342,395	204	4,997,494	3,637,232	.....	\$0.4749	285	87

SEVENTH INSPECTION DISTRICT—1904.

NINTH ANNUAL REPORT.

Counties—Franklin, Gallatin, Hamilton, Jackson, Jefferson, Johnson, Perry, Randolph, Saline, Wabash, Washington, Williamson.

EVAN D. JOHN, *Inspector*, Carbondale.

HON. DAVID ROSS,
Secretary, State Bureau of Labor Statistics, Springfield, Ill.

SIR—As required by section 12 of the general mining law of the State, I submit herewith the ninth annual report of the coal mines located in the seventh inspection district for the year ended June 30, 1904. This district embraces 11 coal producing counties, as follows: Franklin, Gallatin, Hamilton, Jackson, Jefferson, Johnson, Perry, Randolph, Saline, Washington and Williamson; Franklin county appears this year for the first time, while Wabash county makes no report of coal mined.

The tables of the different counties comprise a complete record in the district, showing the number of mines, also new mines and mines that have been abandoned; the average number of persons employed at each mine; the total tons of coal produced, divided into different grades, mine run, lump, egg, nut, pea or screening, and slack or waste; the average value per ton of each grade at the mine, and the aggregate value of the product of each mine and county, and for the district; the price paid for mining at each mine with the average for the county and district; the fatal and non-fatal accidents, and causes of same; the number of wives made widows, and the number of children made fatherless; the average number of days each mine was in operation; the quantity of powder used; the tons of coal cut by machines and mined by hand; the number of mines using machines, and the number of machines in use.

The following summary gives in detail the salient points contained in the report:

Number of counties producing coal.....	11
Total number of mines	118
Number of shipping mines.....	71
Number of local mines	47
Number of mines abandoned during the year.....	2
Number of new mines opened during the year	1
Number of mines using machines.....	98
Number of machines in use.	1,055
Tons of coal cut by machines	5,153,000
Tons of coal mined by hand	6,188,879
Total tons of coal produced.....	11,341,879
Tons of mine run	1,891,000
Tons of lump.....	1,880,000
Tons of egg.....	1,880,000
Tons of nut.....	1,880,000
Tons of pea or screenings.....	1,000,000
Tons of slack or waste.....	1,000,000
Aggregate value of total product	
Average value of mine run coal per ton at mines.....	
Average value of lump coal per ton at mines	
Average value of egg coal per ton at mines.....	

ge value of nut coal per ton at mines.....	\$1.0134
ge value of pea or screenings per ton at mines.....	\$0.6424
ge value of slack or waste per ton at mines.....	\$0.3244
er of miners.....	5,354
er of other employés under ground.....	1,507
er of boys employed underground.....	203
er of employés above ground.....	1,003
number of employés.....	8,067
oaded on cars for shipment.....	5,487,276
supplied to locomotives at mines.....	262,475
old to local trade.....	220,904
consumed or wasted at mines.....	218,224
ge number of days of operation for shipping mines.....	207
er of kegs of powder used for blasting coal.....	166,728
er of kegs of powder used for other purposes.....	422
er of fatal accidents.....	30
er of non-fatal accidents.....	84
er of widows.....	17
er of children made fatherless.....	45
er of tons of coal produced to each fatal accident.....	206,296
er of tons of coal produced to each non-fatal accident.....	73,677
er of persons employed to each fatal accident.....	289
er of persons employed to each non-fatal accident.....	96

comparative table is presented showing the total tons produced in each ty for the years 1903 and 1904, with the increase and decrease:

COUNTIES.	TOTAL PRODUCT OF ALL GRADES OF COAL IN TONS.		Increase..	Decrease.
	1903.	1904.		
adin.....		4,240	4,240	
tin.....	45,400	68,411	23,011	
ilton.....	700	2,000	1,300	
ion.....	972,284	812,641		159,643
rson.....	15,100	29,967	14,867	
son.....	2,545	3,050	505	
r.....	1,031,751	1,240,174	208,423	
lolph.....	478,125	620,280	142,155	
e.....	354,172	299,720		54,452
ash.....	4,800			4,800
hington.....	57,956	19,930		28,026
iamson.....	2,711,767	3,010,635	298,868	
Total.....	5,674,600	6,111,048	693,369	256,921

Net increase 436,448 tons.

he counties of Williamson, Perry and Randolph give substantially the en-
increase in the district, which is 436,448 tons for the year. Jackson
nty reports a less tonnage than for the past five years; last year it stood
the list of 17 of the counties in the State, having a production of over
00 tons.

NEW MINES.

le Western Coal & Mining Company, general offices in St. Louis, has
ed a new mine at Bush, Williamson county. The shaft is 9½ by
feet in the clear; the seam is No. 7 of the general series; 40 miners,
s have been erected, also a hotel, office building and store. A coal
ng plant has been erected with a capacity of 60 tons an hour. Two
c haulage motors have been installed.

The Eldorado Coal & Coke Co., Eldorado, Saline county, has opened a mine at that place; the mine is located on the Louisville & Nashville, Illinois Central and Big Four railroads. The mine has first-class equipments; two engines are each 18x34, directly connected to a six-foot drum, each 100 horse power; the boilers are 20 feet by 72 inches, having six-inch rivet flues, and estimated at 150 horse power; Worthington duplex pumps are used to feed the boilers.

The Harrisburg-Big Muddy Coal Co., general offices in Chicago, has opened a new mine, located on the Big Four railroad, two miles northeast of Harrisburg, Saline county. The company has an area of 800 acres, and has constructed a plant that will have a capacity to hoist 2,000 tons a day. The shaft is 9x13 feet in the clear, and the escapement shaft is 8x13 feet. The shaft is sunk to No. 5 seam, which will average five one-half feet in thickness; the depth of the mine is 420 feet, which is over 100 feet lower than other mine in this locality. The mine is equipped with a pair of Litch engines 24x36 and an eight-foot drum, also two Erie boilers with a capacity of 300 horsepower; two additional boilers of the same kind will be put in. The tippie and buildings are covered with corrugated iron; a pipe line is put in to guard against fire; the tippie will be furnished with a double set of Duncan screens and cages. The shaft top and buildings are lighted with electricity. The company will erect at once a modern bath house for the men, with stationery tubs, supplied with hot and cold water; individual lockers will also be provided; this building will have steam heat. The shaft will be completed about the middle of next October, when the sinking of the air shaft will be commenced.

The Manufacturers' Fuel Co. was organized during the past year, and succeeds the Weaver Coal & Coke Co. The new company now own one mine at Pana, Christian county, one at Nilwood, Macoupin county, two at Duquoin, one at Pinckneyville, and two at St. John, Perry county, and one at Decatur, Macon county.

The Joseph Winkle Mining & Realty Co., has sunk a new shaft at Craig, Perry county. This location is a few miles northwest of Pinckneyville, on the Illinois Central railroad. The depth of the shaft is 257 feet to the top of the coal, which is seven feet thick. The company suggests that this is No. 1 seam of the general section; an 18-inch seam and a three-foot seam are above the one first named. The tippie is built of steel; a three-track shaker screen is erected; a battery of four boilers have been installed, with a large motion Ottumwa engine and a seven-foot drum, also an air compressor. The power plant and powder house are fire proof.

The Equitable Coal Company, the Forresters Coal Co., and the Crescent Coal Co., have opened out new mines at Duquoin, Perry county.

In Williamson county the Big Muddy Coal & Iron Co. has opened a new shaft, known as No. 8; the depth of the shaft is 170 feet.

The Western Coal & Mining Co., a new corporation, has opened a new shaft which is 119 feet to the coal; both of these shafts have electric haulage.

In Saline county, the Egyptian Coal & Coke Co. has opened two new mines known as Nos. 1 and 2.

There have been quite a number of new local mines opened during the year and a corresponding number of the same class of mines abandoned.

FATAL ACCIDENTS.

The number of fatal accidents for the past year exceeds that of any year since the formation of this district. This increase is largely due to the terrific explosion of powder May 11, 1904, in the mine of the Big Muddy Coal & Iron Co., at Herrin, Williamson county. The description of the causes of fatal accidents follow in detail:

August 8, 1903, Eric Anderson, driver, aged 26 years, single, was instantly killed in the No. 3 mine of the Southern Illinois Coal Mining & Washing Co. at Marion, Williamson county. The deceased was bringing out a trip of coal when in some manner he slipped off of the car and was dragged some distance when the car ran over him.

September 23, 1903, John Murphy, trapper, aged 14 years, employed in mine No. 6 of the Big Muddy Coal & Iron Co., Murphysboro, Jackson county. The boy attempted to jump on a moving pit car, when he fell under the wheels; his leg and arm were crushed, the severe shock causing his death.

Sept. 25, 1903, William Losley, mine examiner, aged 27 years, married, was killed instantly in the mine of the Muddy Valley Mining & Manufacturing Co., Hallidayboro, Jackson county. Deceased had gone into a room to show a miner how he should take down top coal; he began to pick at the coal, at the same time endeavoring to avoid its falling on him, but he was caught and crushed. He leaves a widow and three children.

Oct. 12, 1903, John Auglin, miner, aged 21 years, single, employed in the Harrisburg Mining and Coal Co.'s mine. Harrisburg, Saline county, was killed by his own shot. He lit the squib too close, and did not get to a place of safety.

Oct. 17, 1903, Thomas E. Thompson, miner, aged 60 years, married, employed in the mine of the Williamson County Coal Co., Johnston City, Williamson county. He was in the act of setting a prop to secure the roof, when a piece of slate weighing about 700 pounds fell on him; no one was in the room at the time of the accident. He leaves a widow and one child.

Dec. 19, 1903, Ames Keen, miner, aged 56 years, married, was seriously injured in the mine of the Soper Coal Co., Cutler, Perry county. Early in the afternoon he fired some shots in his room; evidently he thought that the squib of one shot had failed to ignite, as he returned to the room, and, when within a few feet of the entrance, the shot exploded, the falling and flying coal striking him. He died five hours afterwards. He leaves a widow and three children.

Dec. 29, 1903, John Benedict, spragger, aged 18 years, single, was instantly killed in the mine of the Chicago-Herrin Coal Co., Herrin, Williamson county. Deceased had spragged some cars near the shaft, and was letting down some more cars; while doing this his head was caught and crushed between the cars in motion, and those standing still.

Jan. 2, 1904, Salvador Simon, laborer, employed by the Leiter Coal Co., at Sigler, Franklin county, was instantly killed by falling to the bottom of the sump, which was about 32 feet from the main shaft. Simon was employed to give signals to the engineer; some shots were fired in the main entries and in attempting to get out of danger he fell into the sump.

Jan. 11, 1904, Richard Carnahan, miner, aged 25 years, single, was killed while firing a shot in the mine of the Moffat Coal Co., Sparta, Randolph county.

Jan. 14, 1904, Charles Sells, hoisting engineer, was instantly killed by the explosion of the boiler, at the mine of the West Frankfort-Big Muddy Coal Co., West Frankfort, Franklin county. The pumps had failed to work, deceased and others were trying to repair them in order to feed the boilers; no one was able to tell how much water was in the boiler when it exploded.

Jan. 25, 1904, Pete Zanatti, miner, aged 31 years, widower, was instantly killed at No. 7 mine of the Big Muddy Coal and Iron Co., Herrin, Williamson county. Deceased had come to the bottom for some unknown purpose; when the motor with a trip of loaded cars came out, he was warned to get out of the way, he replied, "all right," and stepped onto an empty track, but for some unexplainable reason, when the cars came near him he jumped onto the other track and tried to squeeze himself between the motor and the side of the entry when he was crushed to death. He leaves two children.

Jan. 28, 1904, Samuel Willis, sinker, aged 31 years, widower, was instantly killed by falling out of a sinking bucket, to the bottom of the shaft, a distance of about 40 feet, at the mine of the Harrisburg-Big Muddy Coal Co., Harrisburg, Saline county. Willis had been timbering at the bottom of the shaft, and through with his work he got into the bucket to take a step ladder to the top. He told one of the men working with him to give one bell instead of three bells, which is the proper signal to hoist to the top. The engineer, responding to the signal, understood that no one was coming up, started the cage at a good rate of speed, when at the distance stated deceased fell out of the bucket.

Feb. 1, 1904, Anton Mechelle, miner, aged 36 years, married, was killed by falling from the ascending cage, in the mine of the Chicago and Big Muddy

Coal and Coke Co., Marion, Williamson county. Deceased fell from the cage when it was about 30 feet from the bottom of the shaft. He was crushed between the cage and bunton. He leaves a widow and three children in Italy.

Feb. 11, 1904, Edward Gasaway, miner, aged 36 years, married, employed in the mine of the Saline County Coal Co., Harrisburg, Saline county, was severely injured by flying coal from a shot blowing through from an adjoining room. He died a few hours after the accident, leaving a widow and three children.

March 19, 1904, Walter Ferrell, trapper, aged 16 years, was killed at the No. 6 mine of the Big Muddy Coal and Iron Co., Murphysboro, Jackson county. The boy attempted to run past a moving loaded trip and was caught and crushed between the cars and rib.

March 28, 1904, Aaron Burlisan, miner, aged 70 years, married, employed in the Jupiter mine No. 4 of the Manufacturers Fuel Co., Pinckneyville, Perry county, was found dead in his room in the mine. The mine stopped work about 1:30 p. m. the mine manager noticed that Burlisan's peg was still in the board; search was immediately made, and he was found in his room lying face downward, where he had been drilling. He apparently died without a struggle. The coroner's verdict was heart failure. He leaves a widow and eight children, three of whom are dependent.

April 13, 1904, Thomas Robertson, miner, aged 48 years, married, working in the old Kentucky Coal company's mine, Tamaroa, Perry county, was instantly killed by falling slate at his working place. He leaves a widow and three children.

April 25, 1904, Adolph Crizzati, miner aged 24 years, married, was instantly killed in the north side mine of the Chicago-Carterville Coal company, Herrin, Williamson county. Deceased had fired a shot which he evidently thought had exploded, as he had returned to investigate; when within about 18 feet of his working place the shot went off, the flying coal striking him about the head and body. He leaves a widow.

April 27, 1904, Louis Graves, miner, aged 34 years, employed in No. 3 mine of the Southern Illinois Coal & Washing company, Marion, Williamson county, was instantly killed by falling slate while at work in his room. He leaves a widow and one child.

May 6, 1904, Carsidine Nardina, miner, aged 30 years, was fatally injured in the mine of the Missouri-Illinois Coal company, Willisville, Perry county. While at work in his room a fall of slate caught him, injuring him so severely that he died six hours afterwards. He leaves a widow and two children.

May 11, 1904. This date records the terrible explosion of powder in the mine of the Big Muddy Coal & Iron company, Herrin, Williamson county. Four men were instantly killed as follows: Richard Raines, driver, aged 36 years, married, leaves a widow and two children; John Miller, driver, aged 22 years, single; Fred Selberg, pumpman, aged 24 years, married, leaves a widow and one child; Evan Williams, driver, aged 21 years, single. Eighteen other employes were more or less severely injured by this explosion, six of whom died as follows: May 16, Sherid Busch, miner, aged 29 years, married, leaves a widow and four children; John Swafford, miner, aged 40 years, married, leaves a widow and four children; Carlo Lualdi, miner, aged 29 years, single; May 25, Thomas Green, driver, aged 36 years, married, leaves a widow and three children; Louis Branco, miner, aged 29 years, married, leaves a widow and two children, and May 26, William Stagner, miner, aged 24 years, married, leaves a widow. In addition to the ten men here enumerated as meeting death by this explosion, 12 others were so severely injured that they were not able to return to work July 1, 1904.

In explanation of the causes leading up to this explosion, it would seem that there was a lack of proper precaution in sending powder into the mine. It was the custom at this mine, up to the time of the explosion, for a driver to take the powder that was to be used by the men in the mine, into the mine in the mine cars and deliver it to the miners, a limited time being given the driver to reach the inside workings before turning on the electric current. On this fatal morning a driver started with six kegs of powder in his car; with him were one or two other drivers. It is supposed that the car

into the wire, which was down; the cause of the explosion, however, can only be conjectured, as the drivers who were in the car were instantly killed.

It is understood that the company at once took up the matter of damages with the widows and other representatives of the men who were killed or injured and have made liberal settlements with all with one exception.

The table of fatal and non-fatal accidents follows, also the county tables, giving in detail the coal statistics of the district.

Respectfully submitted,

EVAN D. JOHN,

State Inspector of Mines, Seventh District, Carbondale.

Fatal Casualties—Seventh District—July 1, 1904.

Date.	NAME.	Age.	Occupation.	Married.	Widow.	Children.	Single.	Persons dependent.	Cause of accident.
1903									
Aug.	8 Erick Anderson	26	Driver.				1		Pit cars.
Sept.	23 John Murphy	14	Trapper				1		Pit cars.
	25 William Losley	27	Mine Ex.	1	1	2		3	Falling coal.
Oct.	12 John Anglin.	21	Miner				1		Explosion of shot
	17 Thos. E. Thompson.	60	Miner.	1	1	1		2	Falling slate.
Dec.	19 Ames Keen.	56	Miner	1	1	3		4	Flying coal
	29 John Benedict.	18	Spragger.				1		Pit cars
1904									
Jan.	2 Salvador Simon		Laborer	1					Falling into sump
	11 Richard Connahan	25	Miner				1		Explosion of shot
	14 Charles Sells		Engineer	1				1	Explosion of boiler
	25 Peter Zannati	31	Miner	1		2		2	Pit cars.
	28 Samuel Willis	31	Sinker	1					Falling from bucket
Feb.	1 Anton Mechello.	36	Miner	1	1	3		4	Falling from cage
	11 Edward Gasaway.	26	Miner	1	1	3		4	Flying coal.
Mar.	19 Walter Ferrell	16	Trapper				1		Pit cars
	29 Aaron Burlison.	70	Miner	1	1	8		4	Heart failure
Apr.	13 Thomas Robertson.	48	Miner.	1	1	3		4	Falling slate
	25 Adolph Crisotti	24	Miner.	1	1			1	Flying coal.
	27 Louis Groves.	34	Miner	1	1	1		2	Falling sl te.
May	6 Carsodine Nardina	30	Miner	1	1	2		3	Falling slate
	11 Richard Raines.	34	Driver.	6	1	3		4	Explosion of powder
	11 John Miller.	22	Driver.				1		Explosion of powder
	11 Fred Seiberg.	24	Pumpman	1	1	1		2	Explosion of powder
	11 Evan Williams	21	Driver				1		Explosion of powder
	11 Sherid Busch	28	Miner	1	1	4		5	Explosion of powder
	11 John Swofford	40	Miner	1	1	4		5	Explosion of powder
	11 Thomas Green	36	Driver	1	1	3		4	Explosion of powder
	11 Carlo Luaidi	29	Miner				1		Explosion of powder
	11 William Stagner.	24	Miner.	1	1			1	Explosion of powder
	11 Louis Branco.	29	Miner	1	1	2		3	Explosion of powder
				21	17	45	9	58	

Recapitulation of Fatal Casualties—Seventh District—1904.

RESIDENCE.	No.	Occupation.	No.	Nature of Casualty.	No.	Colliery.	No.
Cutler	1	Drivers.	5	Explosion of boiler.	1	Big Muddy Coal & Iron Co	13
Hallidayboro	1	Engineer	1	Explos'n of powd'r	10	Chi. & Big M. C. Co.	1
Harrisburg.	3	Laborer	1	Explos'n of shot	2	Chicago-Carterville.	1
Herrin	12	Mine exam	1	Falling coal	1	Chicago & Herrin.	1
Johnson City	1	Miners	17	Falling from bucket	1	Leiter Coal Co	1
Lake Creek.	1	Pumpman	1	Falling from cage	1	Harrisburg & Big M	1
Marissa	3	Sinker.	1	Falling into sump.	1	Harrisburg M & C Co	1
Murphysboro	2	Spragger.	1	Falling slate	4	Manufrs Fuel Co	1
Pinckneyville	1	Trapper	2	Flying coal	3	Missouri & Illinois	1
Sparta	1			Heart failure	1	Moffat Coal Co.	1
Tamaroa.	1			Pit cars.	5	Muddy Valley C. Co.	1
W. Frankfort	1					Old Kentucky C. Co	1
Willisville	1					Saline Co. Coal Co.	1
Ziegler.	1					Soper Coal Co	1
						So. Ill Coal Co	2
						W. Frankfort Big M	1
						Williamson Co. C.Co.	1
Totals	30		30		30		30

Run-run Casualties—Seventh District—July 1, 1902.

Date.	NAME.	Age.	Occupation.	Residence. (Town.)	Name of mine.	Married.	Single.	Children.	No. persons dependent.	Character of injury and cause of accident.	Time lost— days.
1903 July	Chas. Wallace	17	Carpenter	Duquoin	Jupiter, No. 2	..	1	1	1	Foot cut by adz.	..
Aug.	Wm. Hill	26	Driver	Duquoin	Jupiter, No. 1	1	..	1	1	Leg bruised; mining car	..
	C. W. White	33	Carpenter	West Frankfort	Jupiter, No. 5	1	1	1	1	Back injured; smoke stack	..
	Geo. Falor	24	Driver	Duquoin	Jupiter, No. 1	1	1	1	1	Ankle sprained; mining car	..
	John Swafford	36	Miner	Herrin	Big Muddy	1	1	1	1	Back and hip bruised; falling coal	..
	Thos. Greenwood	32	Miner	Duquoin	Jupiter, No. 1	1	1	1	1	Arm cut; falling slate	..
Sept.	John Garivola	21	Driver	Herrin	Big Muddy	1	1	1	1	Back and hip bruised; mining car	..
Oct.	John Bowden	40	Miner	Pinckneyville	Jupiter, No. 4	1	1	1	1	Face and back bruised; falling clod	..
	Ed Seifert	24	Driver	Pinckneyville	Jupiter, No. 4	1	1	1	1	Ankle fractured; mining car	..
Nov.	Kollo Blankenship	23	Driver	Cartersville	Big Muddy	1	1	1	1	Arm bruised; mining car	..
	John Hager	27	Driver	Duquoin	Jupiter, No. 3	1	1	1	1	Hand injured; mining car	..
	Antonio Russo	55	Miner	Murphysboro	Harrison	1	1	1	1	Back injured; falling slate	..
Dec.	Angelo Carnaghi	25	Miner	Herrin	Big Muddy	1	1	1	1	Rib and hip broken; mining car	..
	John Swafford	36	Miner	Herrin	Big Muddy	1	1	1	1	Leg bruised; mining car	..
	Lee Gladson	26	Driver	Duquoin	Jupiter, No. 1	1	1	1	1	Head and face cut; mining car	..
	Thomas White	26	Driver	Duquoin	Jupiter, No. 1	1	1	1	1	Leg caught; mining car	..
	Cutbert Atkinson	20	Driver	Murphysboro	Harrison	1	1	1	1	Hand injured; mining car	..
	Pat Gillyoll	43	Miner	Herrin	Big Muddy	1	1	1	1	Leg bruised; mining car	..
	Edward G. Lee	27	Carpenter	St. Johns	Jupiter	1	1	1	1	Head hurt; iron falling from scaffold	..
	Rosco Fleming	20	Top laborer	Herrin	Big Muddy	1	1	1	1	Ankle sprained; mining car	..
	John Pointer	25	Driver	Herrin	Big Muddy	1	1	1	1	Back sprained; switch pole	..
	Bert Francis	26	Driver	Duquoin	Jupiter, No. 1	1	1	1	1	Head, arm and leg injured; mining car	..
	Wm. Knapp	26	Water hauler	Duquoin	Jupiter, No. 3	1	1	1	1	Arm injured; mining car	..
	Lee Chambers	45	Top laborer	Herrin	Big Muddy	1	1	1	1	Head bruised; coal car	..
	Emery Dyer	17	Trapper	Pinckneyville	Jupiter, No. 4	1	1	1	1	Leg bruised; mining car	..
	Office Dorris	25	Dumper	Herrin	Big Muddy	1	1	1	1	Hand bruised; caught by sprag and rib	..
1904 Jan.	E. G. Holloway	30	Carpenter	Duquoin	Jupiter, No. 2	1	1	1	1	Head cut; falling timber	..
	Pete Snyder	40	Miner	Zeigler	Leiter	1	1	1	1	Finger cut off; overturning sinker's bucket	..
	John E. Williams	42	Mach. runner	Zeigler	Leiter	1	1	1	1	Back wrenched; mining machine	..
	Ben O'Connor	43	Miner	Duquoin	Jupiter, No. 3	1	1	1	1	Hips bruised; mining car	..
	James Burton	57	Laborer	Duquoin	Jupiter, No. 3	1	1	1	1	Spine injured; falling slate	..
	Patrick Summers	40	Miner	Murphysboro	No. 8	1	1	1	1	Back injured; falling slate	..
	Logan Bidwell	40	Trimmer	Duquoin	Jupiter, No. 1	1	1	1	1	Finger bruise; falling coal	..
	Thos. Kirkman	16	Trapper	Duquoin	Jupiter, No. 3	1	1	1	1	Leg kicked by mule	..
Feb.	David Jones	22	Driver	Duquoin	Jupiter, No. 3	1	1	1	1	Foot and ankle sprained; mining car	..

Non-Fatal Casualties—Seventh District—July 1, 1904—Concluded.

Date.	NAME.	Age.	Occupation.	Residence. (Town.)	Name of mine.	Married.	Children.	Single.	No. persons dependent.	Character of injury and cause of accident.	Time lost— days.
1904											
Feb.	12 Otto Stephens	40	Laborer	Duquoin	Jupiter, No. 3.	1	1		1	Hand bruised; falling slate	141
	20 Logan B. dwell	45	Trimmer	Duquoin	Jupiter, No. 1				1	Hand and finger bruised; spragging car	
	24 S. S. Watson	42	Miner	Zeigler	Lelter		1			Body burned; powder explosion	
	25 Batisto Sarto	24	Miner	Duquoin	Jupiter, No. 3.		1			Leg bruised; falling slate	
March	1 Wm. Williams	33	Miner	Zeigler	Jupiter, No. 1		1			Leg broken; falling slate	
	4 Roy Walker	18	Driver	Herrin	Lelter		1		1	Body squeezed; sinker's bucket and rib	
	5 Frank Welker	22	Driver	Sunfield	Big Muddy		1		1	Foot bruised; mining car	
	6 H. B. Eaton, Jr.	28	Miner	Herrin	Katon Fuel Co		1		1	Arm injured	
	8 Caesar Blone	35	Miner	Duquoin	Big Muddy		1		1	Leg broken; flying coal	
	9 Wm. Degnot	17	Miner	Duquoin	Jupiter, No. 3		1		1	Back and head bruised; falling slate	
	10 John Rosa	40	Miner	Duquoin	Jupiter, No. 3		1		1	Head and face burned; premature shot	
	11 Jesse Jones	39	Driver	Murphysboro	Shaft 6		1		1	Arm broken; mining car	
	12 E. C. Child	20	Miner	Zeigler	Lelter		1		1	Body burned; premature shot	
	13 Frank McNeill	29	Miner	Murphysboro	No. 6		1		1	Leg sprained; falling coal	
	21 Jo Castagn	20	Miner	Duquoin	Big Muddy		1		1	Leg broken; flying coal	
	23 Ed Miller	45	Miner	Herrin	Jupiter, No. 2		1		1	Back bruised; falling slate	
	24 John Weir	35	Topman	Zeigler	Big Muddy		1		1	Shoulder bruised; falling slate	
April	3 Ike Nichols	34	Miner	Zeigler	Lelter		1		3	Body injured in chute	
	6 Bill Butler	22	Miner	Zeigler	Lelter		1		2	Rye injured; flying coal	
	7 Ralph Cox	16	Trapper	Duquoin	Big Muddy		1		1	Hips injured; mining car	
	11 Thos. Kirkman	28	Miner	Zeigler	Jupiter, No. 3		1		1	Fingers injured; dynamite cap	
	13 Horace Herin	28	Driver	Pinckneyville	Lelter		1		1	Foot injured by a nail	
	21 Hosa West	39	Driver	Pinckneyville	Jupiter, No. 4		1		1	Leg bruised; mining car	
	23 John D. Hurly	39	Timberman	Herrin	Jupiter, No. 4		1		2	Arm broken; mining car	
	24 W. P. Morrison	23	Miner	Zeigler	Big Muddy		1		1	Head cut; falling slate	
	25 Ben Lelter	20	Miner	Herrin	Lelter		1		1	Head injured; falling slate	
	26 Marion Busch	22	Miner	Herrin	Big Muddy		1		1	Leg bruised; falling slate	
May	11 Angelo Sparoli	40	Miner	Herrin	Big Muddy		1		1	Body burned; powder explosion	
	11 Louis Chiodinla	33	Driver	Herrin	Big Muddy		1		4	Body burned; powder explosion	
	11 Will Carter	31	Miner	Herrin	Big Muddy		1		3	Body burned; powder explosion	
	11 Frank Passonla	29	Timberman	Herrin	Big Muddy		1		2	Body burned; powder explosion	
	11 T. H. Tascher	19	Miner	Herrin	Big Muddy		1		2	Body burned; powder explosion	
	11 G. S. Stagner	19	Miner	Herrin	Big Muddy		1		1	Body burned; powder explosion	
	11 Geo. Serica	19	Miner	Herrin	Big Muddy		1		1	Body burned; powder explosion	

June	11 Thomas Dare	37 Miner	Herrin	Big Muddy	1	1	2	3 Body burned; powder explosion	40
	11 Charles Smith	14 Trapper	Herrin	Big Muddy	1	1	2	Body burned; powder explosion	30
	11 Wm. Dare	23 Miner	Herrin	Big Muddy	1	1	1	Body burned; powder explosion	30
	11 Geo. Hewlet	36 Miner	Herrin	Big Muddy	1	1	3	Body burned; powder explosion	30
	11 Wm. Truez	30 Miner	Zeigler	Leiter	1	1	2	Head injured; falling coal	30
	13 O. A. Barwell	35 Miner	Sniffeld	Eaton Fuel Co	1	1	2	Body burned; premature blast	40
	14 Joseph Hagston	44 Mine manager	St. Johns	Jupiter, No. 2	1	1	4	Arm and rib broken; dying coal	30
	20 J. H. Lewis	48 Miner	Duquoin	Lake Superior	1	1	2	Finger broke by bushing on empty car	30
	24 J. F. Simmons	25 Driver	Duquoin	Jupiter, No. 4	1	1	1	Leg and hand bruised; caught in door	30
	2 C. H. Holland	24 Miner	Zeigler	Leiter	1	1	1	Body burned; gas explosion	30
	3 Chas. Towers	31 Miner	Zeigler	Leiter	1	1	1	Ankle sprained; mining machine	30
	8 Otice Maynard	22 Driver	Herrin	Big Muddy	1	1	1	Hand bruised; mining car	30
	11 John Wagoner	23 Driver	Herrin	Big Muddy	1	1	1	Head cut; fell into hopper	30
	13 Joseph Marr	35 Miner	Herrin	Big Muddy	1	1	5	Body injured; falling slate	30
	30 John Pico	38 Miner	Herrin	Big Muddy	1	1	2	Nose broken; falling slate	30
	Totals—84				47	37	59	106	

Total number injured	84	Total days lost by men reported	1,308
Number time not reported	48	Average days lost	59
Number not recovered June 30, 1901	14		

Recapitulation of Non-Fatal Casualties—Seventh District—1904.

Residence.	No.	Occupation.	No.	Cause of Accident.	No.	Colliery.	No.
Cartersville . .	1	Carpenters . .	4	Adz	1	Big Muddy C. & I Co.	37
Duquoin . . .	25	Drivers	22	Bucket (slinkers) . .	2	Eaton Fuel Co.	2
Herrin . . .	31	Dumper	1	Door in mine	1	La e Superior C. Co.	1
Murphysboro .	5	Laborers	2	Dynamite cap	1	Lelter Coal Co.	12
Pinckneyville .	5	Machine run . .	1	Falling coal	5	Manufacturers Fuel Co.	32
St. John . . .	2	Miners	41	Falling clod	1		
Sunfield . . .	2	Mine mgr	1	Falling in chute . . .	1		
W. Frankfort .	1	Timbermen . . .	2	Falling into hopper . .	1		
Zeigler . . .	12	Topmen	3	Falling slate	14		
		Trappers	4	Falling from scaf- . .			
		Trimmers	2	fold	1		
		Waterhauler . .	1	Falling timber	1		
				Flying coal	4		
				Gas explosion	1		
				Mining machine	2		
				Mule kick	1		
				Nail	1		
				Pit cars	26		
				Powder explosion . . .	12		
				Premature blast . . .	3		
				Railroad car	1		
				Smoke stack (lifting)	1		
				Sprag	1		
				Switch pole	1		
				Not stated	1		
Total	84		84		84		84

Table Showing the Nature of Injuries, Number of Persons Injured, Dependents, Time Lost, with Averages and Percentages—1904.

NATURE OF INJURIES.	Number.	Married.	Single.	Dependents.	TIME LOST.		Per cent of injuries.
					Total days.	Average days.	
Ankles injured	4	3	1	4	82	21	4.76
Arms broken	8	1	2	7	149	50	4.57
Arms injured	4	2	2	7	30	8	4.76
Backs injured	12	8	4	20	387	32	14.33
Bodies injured	18	10	8	30	40	2	21.41
Eye injured	1	1		3			1.19
Face injured	1		1				1.19
Finger cut off	1		1				1.19
Fingers injured	3	2	1	4			3.57
Feet injured	4	1	3	1	31	31	4.76
Hands injured	6	2	4	2	62	62	7.14
Heads and faces injured . . .	10	6	4	15			11.90
Hips injured	2		2				2.38
Legs broken	3	2	1	2	141	47	3.57
Legs injured	8	5	3	10	342	43	9.32
Nose broken	1	1		3			1.19
Ribs broken	1	1		1	39	39	1.19
Shoulder injured	1	1		1			1.19
Spine injured	1	1		3			1.19
Totals, averages and percentages . .	84	47	37	106	1,303	59	100.00

Franklin County—Seventh District—1904.

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE-				
			Total.	Mine run.	Lump.	Egg.	Nut.
SHIPPING MINE.							
1	Zeigler Coal Co., No. 1.....	Zeigler.....	4,240	4,240	.....	.....	.....
	Totals and average.....	.....	4,240	4,240	.....	.....	.....

Mines in 1903 -0.
New mines—1.
Mines in 1904—1.

Gallatin County—Seventh District—1904.

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE-				
			Total.	Mine run.	Lump.	Egg.	Nut.
SHIPPING MINES.							
1	Gallatin Coal & Coke Co.....	Equality	60,178	.....	32,202	.....	15,831
2	East Side Coal Co.....	Equality	1,063	.....	600	.....	.....
Total			61,241	.....	32,802	.....	15,831

LOCAL MINES.							
1	W. H. McLain	Equality	3,470	.....	3,120	.....	.....
2	M. Corney.....	Shawneetown.	2,000	.....	850	1,150	.....
3	Strong & Wood	Saline Mines .	1,000	1,000	.....	.....	.....
4	Leon Vogt	Shawneetown.	700	700	.....	.....	.....
	Totals .....	.....	7,170	1,700	3,970	1,150	.....
	Totals 6 mines.....	.....	68,411	1,700	36,772	1,150	15,831

Mines in 1903—9.
Abandoned mines—3.
Mines in 1904—6.

Franklin County—Seventh District—Concluded.

No.	Slack or waste.	Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
			Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Total consumed or wasted at the mine.			
1	..	\$1,240	.....	.....	.....	2,845	50	20	1,325	.....	4,240	1
2	..	\$1,240	..	.....	.....	2,845	50	20	1,325	.....	4,240	

NOTE—Price paid for hand mining \$0.55 per ton.

Gallatin County—Seventh District—Concluded.

No.	Slack or waste.	Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
			Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
1	\$59,385	65	29	94	41,687	3,635	9,707	5,149	202	60,178	1
2	985	5	8	11	800	200	..	83	40	1,083	2
3	\$60,350	70	35	105	42,487	3,835	9,707	5,212	203	61,241	

NOTE—Price paid for hand mining shipping mines from July 1, 1903, to April 1, 1904, \$0.51; April 1, 1904, to July 1, 1904, \$0.48. Average price per year \$0.5025 per ton.

1	.....	\$1,800	4	.....	4	.....	.....	3,470	.....	.....	3,470	1
2	.....	3,000	2	.....	2	.....	.....	2,000	.....	.....	2,000	2
3	.....	1,500	2	.....	2	.....	.....	1,000	.....	.....	1,000	3
4	.....	1,050	2	.....	1	.....	.....	700	.....	.....	700	4
5	.....	\$10,440	11	.....	11	.....	.....	7,170	.....	.....	68,411	
6	.....	\$70,790	81	35	116	42,487	3,835	16,877	5,212	203	68,411	

NOTE—Price paid for hand mining local mines \$0.48 per ton.

Hamilton County—Seventh District—1904.

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE-				
			Total.	Mine run.	Lump.	Egg.	Nut.
LOCAL MINE.							
1	J. C. Harper	Flint	2,000	2,000	.....	.....	.....
	Total—1 mine.....	.....	2,000	2,000	.....	.....	.....

NOTE.—Price paid for hand mining, \$0.48 per ton.

Hamilton County—Seventh District—Concluded.

Tons.		Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
Pea or screenings.	Slack or waste.		Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
.....	\$3,000	29	.....	3	.....	.....	2,000	.....	.....	2,000	1
.....	\$3,000	29	.....	3	.....	.....	2,000	.....	.....	2,000	

Mines in 1903, 2.
 Credited to Jefferson Co., 1.
 Mines in 1904, 1.

Jackson County—Seventh Disirict—1904.

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE-				
			Total.	Mine run.	Lump.	Egg.	Nut.
SHIPPING MINES.							
1	Big Muddy Coal & Iron Co., No. 6	Murphysboro.	237,771	36,289	94,523	17,151	.....
2	Muddy Valley Mine & Mfg. Co..	Hallidayboro.	222,516	10,846	147,400	72	8,
3	Big Muddy Coal & Iron Co., Har.	Murphysboro.	182,101	3,339	90,831	.....	.....
4	Gartside Coal Co., No. 4.....	Murphysboro.	69,690	.....	42,392	.....	12,
5	Chicago & Carbondale Coal Co ..	Elk Ridge	50,000	20,000	14,000	3,000	5,
6	Gartside Coal Co., No. 3	Murphysboro.	42,322	.....	28,488	.....	5,
7	Willis Coal Mining Co., No. 2....	Bryden.....	22,403	22,403	.....	.....	.....
8	Gus Blair Big Mud'y C. Co.....	Murphysboro.	12,960	12,000	600	.....	.....
9	Schmidgall Coal Co., No. 1.....	Murphysboro.	5,953	.....	2,976	.....	1
Totals			845,716	104,877	421,210	20,223	33
LOCAL MINES.							
1	M. M. Thomson & Co.....	Carbondale....	2,000	.....	1,000	.....	.....
2	Jake Schimpf.....	Vergennes ...	1,600	1,600	.....	.....	.....
3	Dan Dawson	Campbell Hill	1,325	1,325	.....	.....	.....
4	Wm. Johnson	Vergennes ...	1,200	1,200	.....	.....	.....
5	Wm. Campbell.....	Vergennes ...	1,200	1,200	.....	.....	.....
6	Wm. Meyers	Carbondale....	1,000	300	300	.....	.....
7	F. A. Mason.....	Carbondale....	800	.....	500	.....	.....
8	Rames & Herman	Vergennes ...	800	800	.....	.....	.....
9	Carbondale & Carterville C. Co ..	Carbondale ...	7,000	7,000	.....	.....	.....
Totals			16,925	13,425	1,800	.....	1
Totals—18 mines.....			862,641	118,302	423,010	20,223	34

Mines in 1903, 23.
New mines. 1.
Abandoned mines, 6.
Mines in 1904, 18.

Jackson County—Seventh District—Concluded.

IN TONS.		Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
Pcs or screenings.	Slack or waste.		Average number of miners.	All other employees.	Total	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
26,806		\$241,522	187	134	301	223,660			14,111	236	17,805	1
26,150	17,152	237,885	180	115	275	150,251	69,912	2,853		232	222,516	2
27,831		182,826	184	89	273	169,197			12,904	183	4,334	3
7,485	7,350	97,248	60	44	104	62,340		50	7,300	192	17,243	4
1,000		53,500	100	25	125	48,000			2,000	100	50,000	5
351	7,300	60,922	30	22	52	34,079		943	7,800	181	7,387	6
		28,004	30	19	49	21,833		182	578	278	22,403	7
360		13,744	15	6	21	12,000		600	360	240	260	8
1,489		7,292	8	5	13	46		5,593	314	160	5,953	9
231,784	31,802	\$924,923	754	459	1,213	721,406	69,912	9,731	44,667	213	347,901	

NOTE. Price paid for hand mining, shipping mines: From July 1, 1903 to April 1, 1904, \$0.51, from April 1, 1904, to July 1, 1904, \$0.48 at six mines. Three mines paid, \$0.48, \$0.52 and \$0.68. Making average for year, \$0.4793 per ton.

Price paid for machine mining, shipping mines at three mines from July 1, 1903, to April 1, 1904, \$0.44, from April 1, 1904, to July 1, 1904, \$0.41. One mine for same periods, \$0.57 and \$0.54, one mine paid, \$0.46. Average price for year machine mining, \$0.4257 per ton.

500	2,750	3	3	2,000	2,000	1				
	2,400	3	3	1,600	1,600	2				
	1,968	2	2	1,325	1,325	3				
	1,800	2	1	1,198	2	4				
	1,800	2	2	1,200	1,200	5				
200	1,400	3	3	1,000	1,000	6				
	1,200	2	1	800	800	7				
	1,200	2	2	800	800	8				
	7,000	11	1	7,000	7,000	9				
700	21,588	30	3	9,923	7,002	16,925				
234,434	31,802	916,461	784	462	1,246	721,406	69,912	19,654	51,669	364,826

Price paid for hand mining local mines, \$0.50 per ton.

Jefferson County—Seventh District—1904.

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINES.				
			Total	Mine run.	Lump.	Egg.	Not
LOCAL MINES.							
1	Jefferson Co. Coal Co	Mt. Vernon..	28,587	24,709	1,939	646	
2	J. R. Yates & Co.	Dahlgren ..	1,280	1,280	.....	
3	Sopha A. Shelton.	Opdyke	100	.....	100	.....
	Total—3 mines.....	.....	29,967	25,989	2,039	646	

Mining in 1903, 2.
Credited from Hamilton Co., 1.
Mines in 1904, 3.

Johnson County—Seventh District—1904.

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINES.				
			Total.	Mine run.	Lump.	Egg.	Not
LOCAL MINES.							
1	Dills & Wallace	New Burnside	2,200	1,000	1,000		
2	J. W. Tyler.....	New Burnside	550		150		
3	Wm. F. Kilgore	New Burnside	300	300			
	Total—3 mines.....		3,050	1,300	1,150		

Mines in 1903, 5.
Abandoned mines, 2.
Mines in 1904, 3.

Jefferson County—Seventh District—Concluded.

* TONS.		Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
Per or screenings.	Slack or waste.		Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
1,293		\$31,658	28	15	43	.....	23,372	5,215		242	29,587	1
..	..	1,920	10	.....	10	.....	.....	1,280	.....	80	1,280	2
..	..	150	.....	2	2	.....	.....	100	.....	120	100	3
1,293		\$33,728	38	17	55	.. ..	23,372	6,596		182	29,967	

NOTE.—Price paid or hand mining, \$0.53 per ton.

Johnson County—Seventh District—Concluded.

IN TONS.		Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
Per or screenings	Slack or waste.		Average number of miners.	All other employes	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine	Tons sold to local trade	Tons consumed or wasted at the mine.			
275	200	\$2,250	8	7	10	..	..	2,400	100	100	2,800	1
..	75	618	9	.....	9	..	.....	550	..	..	550	2
..	..	450	1	.....	1	..	.....	300	..	..	300	3
275	275	\$3,318	7	7	14	..	.....	2,950	100	..	3,050	

NOTE.—Price paid for hand mining, \$0.53 per ton.

Randolph County—Seventh District—1904.

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF			
			Total.	Mine Run.	Lump.	Egg.
SHIPPING MINES.						
1	Western Anth. C. & C. Co., Eden	Sparta	148,000		136,000	
2	Moffat Coal Co., Moffat	Sparta	96,309	92,005	3,684	
3	Willis Coal Mining Co., No. 6	Percy	57,824	40,874	13,080	
4	Crystal Coal Co.,	Tilden	52,172	26,988	20,947	
5	Tilden Coal Co., Tilden mine	Tilden	48,143	18,086	27,592	
6	Boyle Coal & C. Co., No. 1	Sparta	45,000	24,500	17,000	500
7	Illinois Fuel Co., No. 3	Sparta	42,064	35,024	5,632	
8	Illinois Fuel Co., No. 4	Sparta	35,360	35,360		
9	Willis Coal Mining Co., No. 5	Percy	35,168	29,016	4,170	
10	Coulterville Mining Co., No. 1	Coulterville	29,300	2,682	22,750	
11	A. b. Powell, Consol.	Coulterville	24,738		17,813	
Totals, 11 mines.			612,071	299,485	268,668	500
LOCAL MINES.						
1	Boyle Coal Co	Sparta	7,559	1,889	5,670	
2	John & Georg Myer	Percy	650	50	550	
Total, 2 mine			8,209	1,939	6,220	
Totals, 13 mines.			620,280	301,424	274,888	500

Total Mines in 1903—14.

New mines—2.

Abandoned mines—3.

Mines in 1904—13.

Randolph County—Seventh District—Concluded.

IN TONS.		Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
Pea or screenings.	Slack or waste.		Average number of miners.	All other employees.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
12,000	.....	\$132,200	75	50	125	144,000	.....	.....	4,000	145	148,000	1
620	.....	87,134	75	24	99	94,995	.....	804	510	.....	95,809	2
3,670	.....	55,802	90	29	119	54,624	.....	1,200	2,000	189	57,824	3
4,237	.....	47,343	72	30	92	52,172	.....	.....	.....	168	52,172	4
4,234	1,086	42,921	57	20	77	44,016	.....	591	1,536	145	46,143	5
1,200	800	50,445	65	20	85	35,000	.....	7,500	2,500	210	45,000	6
1,408	.....	42,416	35	13	48	37,356	3,748	.....	980	288	42,064	7
.....	.....	35,360	20	17	37	33,860	.....	.....	1,500	259	.....	8
1,980	.....	33,040	46	22	68	31,868	.....	1,500	1,800	240	35,168	9
3,218	650	29,010	28	22	50	26,128	.....	2,524	660	236	29,300	10
6,920	.....	19,197	30	6	36	23,043	.....	.....	1,640	215	24,733	11
39,687	2,486	\$574,868	593	243	836	577,108	3,748	14,119	17,096	209	576,711	

NOTE—Price paid for hand mining, shipping mines, from July 1, 1903 to April 1, 1904 \$0.55; from April 1, 1904 to July 1, 1904 \$0.52. Average price for year \$0.5444 per ton. Price paid for machine mining, shipping mine, from July 1, 1903 to April 1, 1904, \$0.43; from April 1, 1904 to July 1, 1904, \$0.45. Average price machine mining, \$0.4725 per ton.

.....	.....	\$11,009	4	2	6	.....	.....	5,670	1,890	.....	7,560	1
50	.....	900	2	.....	2	.....	.....	650	.....	.....	650	2
50	.....	\$11,903	6	2	8	.....	.....	6,320	1,890	.....	8,209	
39,737	2,486	\$586,861	599	245	844	577,108	3,748	20,439	18,985	209	584,920	

Price paid for hand mining, local mines, from July 1, 1903 to April 1, 1904 \$0.56; from April 1, 1904, to July 1, 1904, \$0.53. Average price for year \$0.5445 per ton.

Perry County—Seventh District—1904.

		OUTPUT OF MIKE					
Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	Total.	Mine run.	Lump	Egg	Wash.
SHIPPING MINES.							
1	Willis C M Co., No. 1	Willisville..	241,751	241,751			
2	White Walnut Coal Co.	Pinckney ville	184,789	48,667	115,424		
3	Manufers Fuel Co., Jupiter, No. 1	Duquoin . .	113,440	2,171	40,490	19,284	12
4	Lake Superior Coal Co	Duquoin . .	77,890		46,434		6
5	Manufers Fuel Co., Jupiter, No. 4	Pinckney ville	65,458	2,532	40,258	205	5
6	Manufers Fuel Co., Jupiter, No. 3	Duquoin . .	63,181		43,247	635	4
7	Mo. & Ill. Coal Co., No. 4	Willisville..	62,024	60,774			
8	Little Muddy Coal Co.	Tamaroa . .	51,200		44,943		
9	Greenwood Davis Coal Co	Duquoin . . .	51,094	328	15,000	7,664	11
10	Manufers Fuel Co., Jupiter, No. 2	St Johns . .	48,197	161	23,808	6,458	4
11	Ch., Coulterville C Co	Coulterville..	32,892	16,446	12,000		
12	Perry County Coal Co., Perry	Duquoin . .	30,234	17,827	4,649		
13	Eaton Fuel Co., B. Diamond	Sunfield . . .	21,975		14,680		
14	Strait Coal Co	Pinckney ville	11,415	2,730	6,280		
15	W H Wilson	Duquoin . . .	10,000		5,000		2
16	Queen City Coal Co.	Duquoin . . .	8,000	8,000			
17	Manufers Fuel Co., Jupiter, No. 5	St Johns . .	3,562	1,680	1,170		
18	Horn's Colliery Co	Duquoin . .	110,184	110,184			
19	Soper & Co.	Cutler	53,258	30,000	18,000	3,000	1
Totals			1,240,024	543,251	431,333	37,226	48
LOCAL MINES.							
1	Sycamore Coal Co., Sycamore	Pinckney ville	150	75	60		
Totals			150	75	60		
Totals—20 mines			1,240,174	543,326	431,413	37,226	48,8

Perry County—Seventh District—Concluded.

IN TONS.		Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
Pea or screenings.	Slack or waste.		Average number of miners.	All other employees.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	To & consumed or wasted at the mine.			
19,674	1,004	\$229,663	143	173	316	147,403	89,744	1,052	3,549	289	135,391	1
30,455	8,891	161,765	157	52	209	141,644	40,247	1,874	1,004	257	164,769	2
24,765		94,754	127	73	205	106,780		2,650	4,010	235	113,440	3
11,825	5,066	80,640	84	22	116	75,077		480	1,825	275	77,390	4
12,396	1,996	37,462	94	47	141	60,782			4,676	197	65,458	5
	1,950	57,964	78	40	118	81,381			1,800	201	63,181	6
		54,697	50	13	63	60,324		450	1,250	155	62,024	7
6,257		51,530	65	15	80	50,432		380	388	150	51,200	8
6,132	10,218	53,858	30	18	68	45,174		4,000	1,920	251	51,094	9
10,532	2,698	42,518	58	31	89	45,965			2,232	218	48,197	10
4,446		28,513	35	6	41	30,892		500	1,500	175	32,892	11
7,558	200	26,076	30	16	46	29,707		327	200	300	30,234	12
6,025	1,170	21,345	35	17	52	21,000		900	75	240	21,975	13
1,300	1,000	12,504	16	6	23	7,970		2,845	600	135	11,415	14
2,500		9,625	9	5	14	1,300		6,700		200	10,000	15
		7,200	15	20	35	6,000		500	1,500	160	8,000	16
712		3,252	5	10	15	3,162			400	48	3,562	17
		107,429	105	60	165	110,184				220	110,184	18
....	1,258	51,679	60	17	77	46,658	4,200	1,200	1,200	200	53,258	19
144,579	34,746	\$1,152,495	1,216	656	1,872	1,051,838	134,191	25,866	28,129	210	1,133,654	

NOTE—Price paid for band mining, shipping mines, at nine mines from July 1, 1903 to Apr 1, 1904, \$0.55; from April 1, 1904 to July 1, 1904, \$0.52; seven mines paid \$0.48, one mine \$0.50 and two mines \$0.51; average price for year \$0.5167 per ton; price paid for machine mining, shipping mine, \$0.48 per ton.

....	15	\$165	2	.....	2	.....	.....	150	.....	.....	150	1
....	15	\$165	2	.....	2	.....	.....	150	.....	.....	150	
144,579	34,761	\$1,152,660	1,218	656	1,874	1,051,838	134,191	26,016	28,129	210	1,133,801	

Saline County—Seventh District—1904.

Number.	NAME OF OPERATOR.	Postoffice Address of mine.	OUTPUT OF MINE-				
			Total.	Mine run.	Lump.	Egg.	Nut.
SHIPPING MINES.							
1	Davenport Coal Co., N. Ledford	Ledford.....	139,071	131,715	2,426	.....	1,716
2	Clifton Coal Co., Clifton	Ledford.....	72,647	37,860	14,223	.... ..	8,157
3	Gas Coal Co., No. 1	Harrisburg....	67,000	50,000	8,000	.....	3,500
4	Morris Coal Co., Green Gravel....	Carrier Mills..	9,410	9,410	.....	.....	.....
5	Eldorado Coal & Coke Co., No. 1.	Eldorado	6,443	6,443	.....	.....	.....
Totals, 5 mines.....			294,571	235,428	24,649	.....	13,373
LOCAL MINES.							
1	Casaway Bros., Diamond Joe	Eldorado	2,200	.....	1,600	.....	.....
2	Jobe Ingram, slope.....	Harrisburg....	1,100	.....	800	.....	200
3	D. P. Bybee, slope.....	Harrisburg....	370	.....	280	.....	90
4	Egyptian Coal & Coke Co., No. 1	Harrisburg....	305	305	.....	.....	.....
5	Chas. Hart, slope	Cottage Grove	280	.....	280	.....	.....
6	Diamond Coal Co., Diamond	Harrisburg....	250	250	.....	.....	.....
7	J. R. Loyd, Shaft	Eldorado	150	.....	100	.....	.....
8	S. J. Moore, slope	Cottage Grove	150	150	.....	.....	.....
9	James Yates, slope.....	Cottage Grove	120	.....	90	.....	30
10	R. M. Barry, slope	Cottage Grove	100	.....	100	.....	.....
11	Sherman Dixon, slope.....	Harrisburg....	64	.....	60	.....	4
12	Willis Henson, slope	Harrisburg....	60	.....	50	.....	10
Totals, 12 mines			5,149	705	3,360	.....	334
Totals and av'ges 17 mines			299,720	236,133	28,009	.....	13,707

Mines in 1903, 16.
New mines, 3.
Abandoned, 2.
Mines in 1904, 17.
NOTE—Average price paid for hand mining, local mines, \$0.5025 per ton.

Washington County—Seventh District—1904.

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE-				
			Total.	Mine run.	Lump.	Egg.	Nut.
SHIPPING MINES.							
1	Hugh Murray, Nashville	Nashville	19,930	3,438	11,059	.....	1.94
	Totals .....	.....	19,930	3,438	11,059	.....	1.94

Saline County—Seventh District—1904—Concluded.

Tons.	Slack or waste.	Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
			Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
214		\$112,173	100	42	142	117,106	20,091	624	1,250	263	139,071	1
407	2,000	70,435	50	23	73	70,647			2,000	179	72,647	2
	3,500	85,025	50	23	72	85,800		400	800	170	87,000	3
		9,410	12	7	19	9,000			410	100	9,410	4
		6,443	8	7	15	4,425		2,018		112	6,443	5
621	7,500	\$253,486	220	101	321	266,978	20,091	3,042	4,400	165	294,571	

NOTE—Price paid for hand mining, shipping mines, from July 1, 1903 to April 1, 1904, \$0.48; from April 1, 1904, to July 1, 1904, \$0.48; average for year, \$0.5018 per ton.

600		\$1,130	4	1	5			2,200		100	2,200	1
	100	1,725	4	1	5			1,100		50	1,100	2
		501	2	1	3			87		15	370	3
		305	4	1	5			305			305	4
		350	2	1	3			280			280	5
		250	4	1	5			200	50		250	6
20	30	173	5	1	6			150			150	7
		188	1	1	2			150			150	8
		162	2		2			120			120	9
		123	2		2			100			100	10
		78	2	1	3			64		10	64	11
		70	4		4						60	12
620	150	\$5,077	39	18	57			5,099	50	165	5,149	
241	7,630	\$269,563	259	119	378	266,978	20,091	8,141	4,510	165	299,720	

Washington County—Seventh District—1904—Concluded.

Tons.	Slack or waste.	Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
			Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
	3,459	\$17,405	22	11	33	3,514	3,438	9,519	3,459	251	19,990	1
	3,459	\$17,405	22	11	33	3,514	3,438	9,519	3,459	251	19,990	

NOTE—Price paid for hand mining \$0.55 per ton.

Williamson County—Seventh District—1904.

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE.				
			Total.	Mine run.	Lump.	Egg.	Nat.
SHIPPING MINES.							
1	Big Muddy Coal & Iron Co., No. 2	Herrin	412,887	122,711	77,328	23,287	183,209
2	Sunnyside Coal Co., No. 1.	Herrin	345,787	13,517	111,910	23,064	135,965
3	Chicago & Cartersville C. Co., No. 1	Herrin	313,006	20,772	128,846	18,866	92,522
4	St. L. & B. M. C. Co., Dawes	Dawes	227,261	43,802	42,087	27,276	29,899
5	Sou. Ill. C. M. & W. Co., No. 3.	Marion	186,794	1,058	87,011	27,618	
6	New Virginia C. Co., No. 1....	Lake Creek	165,710	59,947	25,458	22,133	27,199
7	Sou. Ill. C. M. & W. Co., No. 3	Marion	157,305	472	46,841	17,393	31,553
8	Chicago-Herrin C. Co.	Herrin	147,571	1,580	12,918	17,565	94
9	Chicago & B. M. C. & C. Co., No. 1	Marion	128,429		41,374	20,310	13,029
10	Williamson Co. Coal Co.	Lake Creek	128,391	104,941	9,208	7,949	2,004
11	Johnson City & B. M. C. M. Co.	Lake Creek	128,399	72,772	18,738	10,055	10,895
12	Cartersville Coal Co., Burr	Cartersville	125,223	4,882	18,033	42,826	15,602
13	New Ohio Washed C. Co., No. 1.	Cartersville	112,736		22,168	34,200	
14	Cartersville Dist. C. Co.	Marion	101,497	88,000	2,668	2,550	1,475
15	Cartersville Coal Co., No. 2.	Cartersville	84,348	1,857	18,978	14,066	
16	Donaly Koenneck C. Co.	Cartersville	74,048	33,488	14,491	4,330	
17	Robt. Dick Coal Co.	Cartersville	61,821	1,500	15,080	15,080	2,204
18	Cartersville & Big Muddy Coal Co.	Laufer	27,831		6,962	5,562	
19	Western Coal & M. Co., No. 1	Bush	18,821	18,821			
20	Chi. & Marion C. Co., White Ash	Marion	14,266	14,266			
21	Cartersville Mining Co.	Herrin	10,884	5,875	614	774	
22	Cartersville & Herrin C. Co.	Herrin	5,950	2,000	500	800	430
23	M. Hampton.	Cartersville	3,935	886	732	1,115	790
24	St. L. C. C. Co., Walnut Ridge.	Herrin	2,337	2,357			
25	Watson Coal Co., No. 1	Cartersville	200	200			
			3,027,377	614,704	676,983	336,839	544,509
LOCAL MINES.							
1	Adam Young	Cartersville	2,600	2,600			
2	Cartersville Diamond Co.	Cartersville	1,600	1,600			
3	Spiller & White Cotton	Crab Orchard	1,200	1,200			
4	E. E. Ensinnper.	Crab Orchard	1,200	240	960		
5	Motsinger Bros	Crab Orchard	870		720		
6	George Wilson	Marion	700	700			
7	Albert Absher	Absher	700	700			
8	W. J. Powel	Cartersville	600	600			
9	Reese & Crain	Cartersville	600	600			
10	Frank Harris	Crab Orchard	500	500			
11	Thomas Parritt	Cartersville	269		100	65	5
12	W. S. Tarpley	Crab Orchard	250		250		
Total—12 mines...			11,089	8,740	2,089	65	5
Totals—37 mines			3,038,466	623,444	679,072	336,904	544,514

Mines in 1903, 31.

New mines, 6.

Mines in 1904, 37.

Williamson County—Seventh District—Concluded.

IN TONS.		Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
Pea or screenings.	Slack or waste.		Average number of miners.	All other employees.	Total	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
2,747	2,984	\$446,455	257	93	350	397,563	2,551	3,279	12,045	257	412,887	1
14,032	47,249	353,674	205	118	323	318,846		1,543	25,378	258	345,767	2
45,993	35,947	350,682	219	98	303	329,268		2,702	11,036	254	343,006	3
54,504	29,714	237,871	185	70	255	205,941		1,516	17,253	248	227,261	4
68,107		191,148	140	61	201	120,776		78,018		153	40,771	5
85,983		143,523	125	87	212	165,710				284	165,710	6
61,042		155,234	120	71	191	150,064			7,241	150	94,669	7
55,468	59,844	84,043	97	34	137	143,980		2,180	1,431	240	147,571	8
53,717		110,141	119	61	180	125,023		170	3,238	186	78,822	9
4,229		124,724	110	62	172	124,931			3,400	208	128,331	10
21,138		114,754	96	37	132	124,949		400	3,000	161	128,399	11
18,533	26,547	100,329	87	60	147	120,373		1,200	3,650	266	125,223	12
36,368		102,589	90	51	141	106,000		1,936	4,800	208	112,736	13
3,944	860	87,067	65	54	119	96,987			4,510	218		14
49,427		70,169	46	39	85	82,058			2,292	254	84,438	15
18,819	2,920	75,613	60	32	112	70,828		300	2,920	243	74,048	16
27,882	75	57,792	64	24	88	60,571		250	1,000	188	61,821	17
15,307		22,752	56	38	134	27,431			400	208	27,831	18
		17,880	40	30	70	18,649		172		225	8,469	19
		14,266	10	11	21	12,979	1,287			150		20
2,648	943	10,638	30	11	41	9,901		40	943	150	10,884	21
2,200		4,990	12	9	21	5,900		50		50	5,950	22
293	383	4,365	4	8	10	926		3,009		234	3,935	23
		1,650	6	5	11	1,257		983	115	105	2,357	24
		140	4	4	8	141		49	10	40	200	25
647,382	206,966	\$2,882,499	2,307	1,161	3,468	2,821,100	3,838	97,779	104,660	210	2,631,116	

NOTE.—Price paid for hand mining shipping mines from July 1, 1903 to April 1, 1904, \$0.43, from April 1, 1904 to July 1, 1904, \$0.45, average price for year \$0.4692 per ton, average price for machine mining, shipping mines \$0.3924 per ton

		\$3,900	4		4			2,600			2,600	1
		2,400	3		3			1,600			1,600	2
		1,800	3		3			1,200			1,200	3
		1,140	3		3			1,200			1,200	4
	150	750	3		3			720	150	125	870	5
		1,050	3		3			700			700	6
		1,050	3		3			700			700	7
		900	3		3			600			600	8
		900	2		2			600			600	9
		750	3		3			500			500	10
	60	247	4		4			269			269	11
		375	2		2			225	25	60	250	12
	210	15,262	36		36			10,914	175	185	11,089	
647,382	207,176	\$2,897,761	2,348	1,161	3,504	2,821,100	3,838	108,693	104,835		2,642,206	

Average price paid for hand mining local mines for the year, \$0.4693 per ton.

Recapitulation by Counties—

COUNTIES.	Number of shipping mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Franklin	1	4,240	4,240	.....	.....	.....	.....	.....	\$ 4.24
Gallatin	2	61,241	.....	32,802	.....	15,831	12,.....	.....	60.33
Jackson	9	845,716	104,877	421,210	20,223	53,820	233,784	31,802	924.93
Perry	19	1,240,024	543,251	431,353	37,226	48,869	144,579	34,746	1,153.46
Randolph	11	612,071	299,485	268,668	500	1,245	39,687	2,486	574.85
Saline	5	294,571	235,428	24,649	.....	13,573	13,621	7,500	263.66
Washington	1	19,890	3,438	11,059	.....	1,974	.....	3,459	17.45
Williamson	25	3,027,377	614,704	676,968	336,839	544,503	647,382	206,966	2,882.69
Totals	73	6,105,170	1,803,423	1,866,724	394,788	659,615	1,091,661	286,939	\$5,886.26

10,318 tons reported without value not considered in obtaining average value.
 23,587 tons reported without value not considered in obtaining average value.

venth District—1904—Shipping Mines.

EMPLOYEES.		DISPOSITION OF OUTPUT.					Average number of days in operation.	TONS MINED.		PRICES PAID PER TON FOR—		Number of steam boilers.	Number of fans.
All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mines.	Tons sold to local trade.	Tons consumed and wasted at mines.			By hand.	By machines.	Hand mining.	Machine mining.		
.....	.....	2,845	50	20	1,335	...	...	4,240	.....	\$0.55	.....	3	1
35	105	42,487	3,835	9,708	5,212	208	...	61,241	.....	0.5025	...	4	1
459	1,213	721,406	69,912	9,781	44,667	213	...	297,901	497,815	0.4793	\$0.4257	30	8
666	1,872	1,051,838	134,191	25,866	28,129	210	...	1,133,654	1,111,777	0.5167	0.48	41	17
243	836	577,108	3,748	14,119	17,096	209	...	110,711	35,360	0.5444	0.4725	21	11
101	321	266,978	20,091	3,042	4,460	165	...	294,571	...	0.5018	...	13	5
11	33	3,514	3,438	9,519	3,459	251	...	19,930	...	0.55	...	2	1
1,161	3,468	2,821,100	3,838	97,779	104,660	210	...	2,631,116	396,261	0.4662	0.3924	80	17
2,666	7,848	5,487,276	239,103	169,783	209,008	207	...	5,069,364	1,035,806	\$0.4962	\$0.4209	214	61

Recapitulation by Counties—

COUNTIES.	Number of local mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Gallatin	4	7,170	1,700	3,970	1,150	.....	350	.....	\$2,449
Hamilton	1	2,000	2,000	.....	.....	.....	.....	.....	2,000
Jackson	9	16,923	13,423	1,800	.....	1,000	700	.....	21,435
Jefferson	3	29,987	25,989	2,039	848	.....	.....	1,233	31,125
Johnson	3	3,050	1,300	1,150	.....	50	275	275	1,161
Perry	1	150	75	80	.....	.....	.....	15	25
Randolph	2	8,209	1,939	6,220	.....	.....	50	.....	11,825
Saline	12	5,149	705	3,360	.....	334	620	130	6,467
Williamson,	12	11,089	8,740	2,039	85	35	.....	210	14,390
Totals and averages	47	83,709	55,873	20,638	1,881	1,419	1,995	1,923	105,522
Totals in districts—all mines	120	6,188,879	1,881,296	1,887,382	396,649	661,034	1,063,056	233,882	\$5,265,907

Total number of mines reported for 1903—134.

Number of new mines in 1904—18.

Number of mines abandoned and not reported—32.

Number of mines in 1904—120.

enth District—1904—Local Mines.

EMPLOYEES.		DISPOSITION OF OUTPUT					TONS MINED.		PRICES PAID PER TON FOR—		Number of steam boilers.	
All other employees.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at mine.	Tons sold to local trade.	Tons consumed and wasted at mines.	Average number of days in operation.	By hand.	By machine.	Hand mining.	Machine mining.	Number of fans.	Number of fans.
1	11			7,170			7,170		\$0.48			
8	8			2,000			2,000		0.48			
3	33			9,923	7,002		16,925		0.50		1	
17	55		23,372	6,595			29,967		0.53		2	1
7	14			2,950	100	100	3,050		0.55			
	2						150		0.52			
2	8			6,320	1,889		8,209		0.5525			
19	57			5,099	50		5,149		0.5830		5	1
	36			10,914	175		11,089		0.4965			
47	111		23,372	51,121	9,216	137	83,709		\$0.5202		8	2
2,713	8,087	5,487,276	262,475	220,904	218,224		5,153,073	1,035,806	\$0.4956	\$0.4209	219	



APPENDIX

**Supreme Court Opinions, Relating to Damages for Accidents
in Coal Mines.**

**REGISTER OF CERTIFICATED—
MINE MANAGERS.
HOISTING ENGINEERS.
MINE EXAMINERS.**

Illinois Free Employment Offices

SIXTH ANNUAL REPORT.

SOME RECENT OPINIONS OF THE SUPREME COURT OF ILLINOIS, RELATING TO ACTIONS BROUGHT TO RECOVER DAMAGES FOR ACCIDENTS OCCURRING IN COAL MINES.

SUPREME COURT OF ILLINOIS.

Chicago, Wilmington & Vermilion Coal Company

v.

Thomas Moran.

Appeal from the Appellate Court for the Second district—heard in that court on appeals from the Circuit Court of LaSalle county; the Hon. H. M. Trimble, Judge, presiding.

Mr. Justice Cartwright delivered the opinion of the Court:

On January 26, 1901, the appellee, Thomas Moran, a boy 16 years of age, was working with his father, Patrick Moran, in a coal mine of the appellant, the Chicago, Wilmington & Vermilion Coal company, at Seatonville, Illinois. Appellant paid Patrick Moran by the ton for the coal mined by himself and his minor son, the appellee. They worked in room 77 and their method was to undercut or take out six inches of clay under the vein of coal, which was about three feet and six inches thick. The full width of the room was forty-two feet and after removal of the coal it was about four feet high. They also took down the ledge of rock, two feet thick and nine feet wide, above the coal, which was the width of the entry behind the room and they used the rock to build the walls on either side of the entry-way, so that the entry was six feet high. In this way the room advanced in distance from the shaft about three feet each day and the entry-way was correspondingly lengthened. The entry-way was in the center of the forty-two foot room. Tracks were laid in the entry, and when a car was filled the driver would take it out and put in an empty car. Some time previously props had been furnished the appellee and his father to hold up the roof over the room and were placed in the entry near the coal, but the company men who attended to the passageway at night, repaired tracks and did other work for the company, found them in the way and carried them back into the entry and laid them along the track. Appellee and his father needing props to support the roof, appellee went along the entry to the place where props furnished them had been put and sawed a prop and then began sawing a cap. He had laid the cap across the track and was on his knees sawing it, when a rock fell from the roof upon him seriously and permanently injuring him. He brought this suit by his father, as next friend, to recover damages for his injury.

There were five counts in the declaration, the first three of which charged the defendant with negligently allowing the roof of the entry-way to be and remain in a dangerous and unsafe condition. The fourth charged that defendant knowingly and wilfully furnished props, caps and timbers to be used by plaintiff, in an unsafe and dangerous place. The fifth charged defendant with wilfully and negligently omitting the duties of inspection by a *mine examiner, provided by statute*. There was a plea of the general issue and a plea that plaintiff was not in the employ of the defendant when

injured. Upon a trial the defendant was found guilty and the plaintiff's damages were assessed at \$5,000. Judgment was entered on the verdict and was affirmed by the Appellate Court for the Second district.

The assignment of errors covers the refusal of the Court to admit evidence offered by the defendant, the giving of instructions on the part of the plaintiff, and the modification of some instructions and the refusal of others submitted by the defendant, and the overruling of defendant's motion in arrest of judgment.

On the trial defendant examined James Cherry as a witness, and he testified that he was the person whose name appeared as one of the signers of an agreement of which the pamphlet was a copy, and that he signed such agreement. The defendant then offered in evidence certain articles of the pamphlet, which purported to be a copy of an agreement signed by various persons on behalf of the coal mine operators and other persons on behalf of the United Mine Workers. The material article offered related to the duty of a miner to notify that suitable props and caps were needed, and not to continue work until they were furnished. The evidence tended to prove that the plaintiff and his father were working in accordance with an agreement between the Operators' association and the United Mine Workers. They were members of the United Mine Workers of Illinois and plaintiff belonged to the local organization at Seatonville, where the mine was. The evidence was objected to because not the best. No foundation was laid for the introduction of the alleged copy and the absence of the original was not accounted for. Section 18 of the act in regard to evidence and depositions, which counsel insist authorizes the introduction of a copy, relates only to papers, entries and records mentioned in the previous sections and does not authorize the introduction of copies of contracts between parties. The ruling was right, and the evidence would have availed nothing to the defendant if it had been admitted. Props and caps had been furnished for the use of the plaintiff and his father in such place as the defendant saw fit to deposit them for that use, and the same witness, Cherry, who was superintendent of the mine, testified that if props were furnished as these were, the plaintiff would have the right, as a matter of course, to go and get them. In fact, that was never controverted at the trial. The only dispute was whether plaintiff had a right to stop in the entry to saw them.

The same witness was asked if there was any service or duty of a coal miner to be performed in the roadway or entry-way, and an objection was sustained. The witness had been in the business of coal mining for 50 years and the question called for an answer as to a matter of fact which would have been proper for the jury to know. The witness, however, testified that the entries and roadways were for the miners to travel to and from their work and for transportation of coal and empty cars, and there was no evidence or claim that they were intended primarily for work. We therefore think that the ruling did no harm. The reason offered by plaintiff for sawing the prop and cap in the entry-way was that there was plenty of height and space there, while in the room at the face of the coal there was not sufficient height.

There was also evidence that the pit-boss assured the plaintiff that the roof was safe, and evidence that the entry-way was the only suitable place for preparing the props and caps. The evidence for plaintiff was that his father called the attention of the pit-boss to the roof about ten days before the accident, and the pit-boss said he would send men to fix it, and told him to go ahead and work, that he thought it was safe enough; also that two days before the accident the father met the pit-boss again and told him he had better go in and fix the roof, that it was getting worse; and the pit boss said he would fix it as soon as he could get around to it; that they should keep at work and nothing would happen. The father testified that on the occasion two days before the accident the pit-boss told him he would fix it some time; that it was all right and that he would have to let the roof settle before fixing it. The pit-boss testified that two or three days before the accident he looked over the place and found it bad and notified the father that he would have it attended to. There can be no reasonable doubt that

which fell had been loose and the top of the entry-way cracked; the defendant had notice of it at least two days before the accident and liability of negligence in not using reasonable diligence to make it reasonable. It was in consequence of such negligence, about which there was no controversy or dispute, that the accident happened. There was no evidence tending to prove a defense, unless the plaintiff was guilty of contributory negligence in sawing the prop and cap in the entry-way instead of carrying them to the face of the coal for that purpose.

The court gave three instructions at the instance of the plaintiff relating to the question of damages, and purporting to state the various things which the jury might consider. The instructions are lengthy and repeat the various elements which enter into the damages in such cases and the things which were to be considered by the jury, and are objectionable on account of their length and repetition. It is not a proper practice to give instructions creating the impression that particular evidence or a particular fact is of prime importance in the view of the Court, and laying special stress upon it. These instructions, however, contain no improper elements, and it is conceded that the damages awarded are only fairly compensatory, so that they had, in this respect, no improper or injurious effect.

The defendant asked the Court to give the jury twenty-nine instructions, of which sixteen were refused, eight were modified, and given as modified, and the remainder were given as asked. The instructions are very lengthy, and their number and length preclude a review of them severally.

Instructions No. 18, 19 and 20, which were refused, were designed to inform the jury that plaintiff was guilty of negligence in preparing to saw the prop and cap in the entry-way and would have taken from the jury the question whether, under the circumstances, he was in the exercise of ordinary care in sawing them where they had been deposited by the defendant for his use. They were properly refused for that reason.

Instruction No. 24, which was refused, stated what would constitute the negligence of plaintiff and his father fellow-servants in law, and that if the plaintiff was injured by the negligence of his father in placing him in a position of undue danger, they must find the defendant not guilty. The Court was in error in refusing that instruction, for the reason that the defendant had been found guilty of negligence beyond all doubt or dispute, and, being responsible for the consequence of its own negligence, it would be liable no matter how negligent a fellow-servant might have been.

Instructions No. 25 and 26 relate to the assumption of risk by the plaintiff, and were refused. It is urged that the plaintiff disregarded his duty in leaving the room to work in the entry-way with knowledge of the danger, and that he assumed the risk, and that the father was chargeable with the care of the plaintiff, and if the father knew the roof in the entry was bad he should not call for props and caps to be delivered at the room, the son assumed the risk. The instructions ignored the evidence that plaintiff and his father were assured by the pit-boss that the roof was safe and to go on with the work, as well as all the other circumstances tending to show that plaintiff did not assume the risk, and they were properly refused.

The principle stated in the twenty-first instruction, which was refused, to the effect that if the plaintiff was injured while doing something outside of the scope of his employment in an improper place, voluntarily, or by the direction of his father, and without knowledge or direction of the defendant, he could not recover, was fully covered by other instructions that were given.

Instructions No. 27 and 28 were instructions offered by the defendant and refused, severally, relating to the fourth and fifth counts, and stating that the plaintiff could not recover on such count, and they were all refused. There was no evidence tending to sustain the fourth and fifth counts, but the first three counts each stated a good cause of action, and there was evidence tending to sustain them. The court might properly have given the instructions relating to the fourth and fifth counts, but inasmuch as the first three counts each stated a cause of action and the evidence was applicable to them, the refusal of the instructions relating to the fourth and fifth is not ground for reversal.

Instruction No. 28, which was refused, stated that if plaintiff's father used plaintiff's son as an assistant and received the earnings from their joint work, the father was a mere licensee. The evidence was, that the ticket put on their

car was Moran and son; that they worked jointly for the defendant and that the father collected the pay, to which he was entitled on account of the minority of the son. The instructions was not the law and was properly refused.

Some instructions were purely abstract, and it was not error to refuse them. Instruction No. 25 was of that character.

There was no error in any modification made by the court except in instruction 12. The instruction as asked defined the words "contributory negligence" and stated that if the plaintiff was guilty of such negligence the jury must find the defendant not guilty, even though they might believe the defendant was chargeable with negligence in the matters complained of in the declaration. The Court modified it so as to permit a recovery if the plaintiff by his own negligence contributed to the injury complained of, if the jury also believed, from the evidence, that the defendant was chargeable with gross negligence. As modified it was incorrect, since the law does not permit a recovery by a plaintiff guilty of contributory negligence, on the ground that the negligence of the defendant was gross. Nothing short of a willful act or willful or intentional neglect of duty will authorize a recovery by a plaintiff guilty of negligence contributing to the injury complained of. As the modification was clearly wrong, the only question is whether it ought to work a reversal of the judgment. The plaintiff was a minor, 16 years of age, and there was evidence that he had been assured by the pit-boss that the place was safe and had been directed to go on with his work. It is also beyond question that the only place fit for sawing props or caps was in the entry-way. The props which had been placed in such entry-way near the face of the coal, had been moved back by the defendant to the place where plaintiff attempted to saw them. We do not think, when the whole evidence is considered, that there was anything fairly tending to prove that plaintiff was guilty of contributory negligence or that the jury could have so found if the instructions had been given as asked, and therefore we do not regard the modifications as error for which the judgment should be reversed.

There was a motion in arrest of judgment, which, it is said, ought to have been sustained because the first count is not sufficient to sustain the judgment. We are of the opinion that the first count is good, and if it were not, the second and third are, and where there is one good count a motion in arrest of judgment must be denied.

The judgment of the Appellate Court is affirmed.

Judgment affirmed.

The Spring Valley Coal Company,

v.

Joseph Robizas

Appeal from the Appellate Court for the Second District: Heard in that court on appeal from the Circuit Court of Bureau County; the Hon. H. M. Trimble, Judge, presiding:

Mr. Justice Cartwright delivered the opinion of the court:

In this case appellee obtained a judgment in the Circuit court of Bureau county, for \$1,750.00 on account of personal injuries sustained by him while in the employ of appellant as a miner in its coal mine No. 3, in the city of Spring Valley. Appellant appealed to the Appellate Court for the Second District, and from the judgment of that court affirming said judgment prosecuted this appeal.

The trial was by jury, and at the close of the evidence the defendant asked the court to instruct the jury to return a verdict of not guilty. The motion was denied and the instructions refused, and the ruling is assigned as error.

The declaration contained three counts. The charge against the defendant in the first count was, that it failed to provide plaintiff with a reasonably safe place to work, but permitted the same to remain in an unsafe and dangerous condition. The second count charged that the defendant delivered empty cars for the use of plaintiff in a careless, negligent manner, by leaving them in such a position that a portion of one of them protruded into the

main entry near the track on which loaded cars were hauled, by reason of which such loaded cars struck the protruding car, and, hurling it against the plaintiff, injured him. The third count charged negligence in the mule driver in driving the mule drawing the loaded cars so negligently and carelessly that the collision occurred:

There was no evidence tending to sustain the charge in the first count. The injury to plaintiff did not result from any failure to furnish him with a reasonably safe place to work. The accident happened in this way: Plaintiff was paid by the ton for mining coal and loading it on cars, and was assisted by his son, a boy about 14 years' old. Defendant furnished him with empty cars, which it was usual to leave for him in the entry to a room adjoining the room where he worked and about 50 feet distant. When he needed an empty car he was accustomed to go there and get one, and push it along the main entry into his room and up to the face of the coal, where it was loaded and afterward hauled out by a mule. In the main entry there was a track along which the cars were hauled, and four empty cars had been left in the entry of the adjoining room by one of the mule drivers. At the time of the accident plaintiff sent his boy to the adjoining room to get an empty car. One of these cars had some props in it, and for that or some other reason the boy was unable to move the car. The plaintiff came out of his room, and went along the main entry toward the place where the empty cars were standing, and when about 20 feet distant he saw a driver approaching along the main track with a mule and two loaded cars. He hastened to the place where the cars were and stepped into the side entry where they stood. The mule was trotting or running, and when he neared the place the driver saw that the first standing car was very close to the main track. The first loaded car struck it and the second one knocked it off the track against the plaintiff, crushing him against the side of the entry. The accident was caused by the loaded car striking the empty car and throwing it against the plaintiff, and was not due, in any sense, to any defect or imperfection in the place where the plaintiff was required to work or to any fault or negligence of defendant concerning the same. He was in a place of entire safety if the car had not been too near the main track so as to be struck by the passing loaded cars. The place was dangerous only in the sense that a negligent act causing an injury is always connected with some place. The evidence for the plaintiff tended to show that the empty cars had been negligently left in that position by the mule driver. There was a slight descent to the main track, and the driver testified that he placed the cars at a safe distance and blocked them with a stone, and that the boy and two men who were there at the time must have moved them afterwards. The evidence was conflicting and it was proper to submit that question to the jury.

It is also contended that the court ought to have directed a verdict because plaintiff and the mule driver were fellow servants. On the other hand, it is insisted that the duty to furnish a safe place to work was one owing by the defendant to the plaintiff, and that, therefore, it would make no difference whether the mule driver was a fellow servant of the plaintiff or not. There being no evidence tending to show that the character of the place was such as to render it dangerous, the rule invoked does not apply. The only cause of the injury was the alleged negligent act of the mule driver, and it was a material question whether the parties were fellow servants. The testimony was that their duties were wholly independent of each other, and under the evidence the question was one of fact.

It was not error to refuse to direct a verdict for the defendant.

An instruction was given at the request of the plaintiff requiring the jury to find the defendant guilty if the plaintiff was in the exercise of ordinary care, and was struck and injured by one of defendant's cars because of a failure on defendant's part to exercise ordinary care to supply reasonably safe places of refuge along the hauling road, not more than 60 feet apart, as required by law. There are several objections to this instruction. It was erroneous because there was no evidence whatever that the accident occurred *because of the want of a place of refuge along the main track.* Furthermore, *the instruction was based on a statute which provides that such places shall not be required in entries from which rooms are driven at regular intervals not exceeding 20 yards, and the undisputed evidence was that the rooms we*

so driven from the entry in question. It was also erroneous because the declaration was not founded upon any violation of the statute, but on negligence at common law, independently of the statute. The instruction was neither applicable to the issue nor the evidence, and it could not be cured by any other instruction because it directed a verdict upon proof of the hypothesis of fact contained in it. While that is true, the record shows that both parties tried the case upon the same theory in that respect. The defendant asked and the court gave an instruction stating the exception, that the statute did not require the defendant to have a place of refuge cut in the side wall of the hauling road where the plaintiff was injured if rooms were divided from the said roadway at regular intervals, not exceeding 20 yards apart. If the case was tried upon an incorrect theory concerning the application of the statute to the case, both parties adopted the theory. The defendant having obtained from the court an instruction applying the statute to the case, cannot be heard to complain that it was also applied in another instruction given at the request of the plaintiff.

The judgment of the Appellate Court is affirmed.

Judgment affirmed.

The Marquette Third Vein Coal Company,

v.

Patrick Dielie.

Appeal from the Appellate Court for the Second District—heard in that court on appeal from the Circuit Court of Bureau county; the Hon. George W. Brown, judge, presiding.

Mr. Chief Justice Hand delivered the opinion of the court:

This is an action commenced in the Circuit Court of Bureau county by the appellee, a minor under the age of fourteen years, by his next friend, against the appellant, to recover damages for a personal injury sustained by him while in the employ of the appellant as a "trapper" in its coal mine. The case was tried upon a declaration containing three counts. The first count charged the appellant with negligence in failing to provide appellee a safe place in which to work. The second count charged the appellant with a wilful violation of the twenty-second section of the Mines and Miners act, in having employed and permitted appellee, a minor under the age of fourteen years, to work in its mine, and without having produced to it, by him, an affidavit that he was fourteen years of age, by means whereof he was injured. The last count charged that plaintiff was under fourteen years of age; that the defendant was aware of that fact, and that he was carelessly, negligently, unlawfully and wrongfully employed by the defendant to work in its mine, and that by reason of being permitted to work in said mine, and because of his youthful indiscretion, he was injured. The general issue was filed, and a trial resulted in a verdict and judgment in favor of appellee for the sum of \$4,000, which judgment has been affirmed by the Appellate Court for the Second District, and a further appeal has been prosecuted to this court.

It is first contended that there is a misjoinder of causes of action in the several counts of the declaration, the position of the appellant being, that an action for negligence, at common law, in failing to furnish appellee a safe place in which to work, and an action for a wilful violation of the Mines and Miners act by employing and permitting appellee, a minor under fourteen years of age, to work in its mine, and without having produced to it, by him, an affidavit that he was fourteen years of age, cannot be joined in the same declaration. The counts are based upon the same state of facts, and if the appellant is liable to appellee for damages for negligence as at common law, and also liable to him for damages by reason of a wilful violation of the Mines and Miners act, no valid reason has been suggested why said causes of action may not be joined in different counts of the same declaration. To hold otherwise would be to hold appellee must bring two actions against the appellant based upon the same state of facts, or abandon one of said causes of action.

The test by which to decide as to the joinder of counts,—that is, what actions may be joined in separate counts of the same declaration—is thus stated in Chitty's Pleadings (vol. 1, p. 200): "The result of the authorities is stated to be, that 'when the same plea may be pleaded and the same judgment given on all the counts of the declaration, or whenever the counts are of the same nature, and the same judgment is to be given on them all, though the pleas be different, as in the case of debt upon bond and on simple contract, they may be joined.' "

In *Hays v. Borders*, 1 Gilm. 46. on page 50, the rule is announced in substantially the same language. It is there said: "It is objected to the declaration that it is defective by reason of a misjoinder of counts and causes of action, in this; that it contains counts for a penalty founded on statute, and others for such damages as could have been recovered at common law. The result of authorities on the subject of the joinder of different forms of action is said to be, that 'when the same plea may be pleaded and the same judgment given on all the counts of the declaration,' or 'wherever the causes of action are of the same nature and may properly be the subject of counts in the same species of action, they may be joined, otherwise they cannot.' "

In *Brady v. Spruck*, 27 Ill. 478, on page 482, the court, again speaking upon the subject through Mr. Justice Breese, said: "The rules of correct pleading allow several causes of action of the same nature to be joined in one count and a recovery had *pro tanto*. The defendant can plead specially to each cause of action. (*Godfrey v. Buckmaster*, 1 Scam. 447). Different actions cannot be joined in the same declaration. The rule is, that when the same plea may be pleaded and the same judgment rendered on all the counts they may be joined."

In *Fairfield v. Burt*, 11 Pick. 244, the court through Mr. Chief Justice Shaw, on page 246 said: "It is further objected that a count on the statute for double damages cannot be joined with counts at common law for damages of like kind. It is difficult to perceive how, either upon principle or authority, this position can be maintained. The form of action is the same. The statute of 1812, (chap. 146, sec. 3), providing that the owner of a dog shall forfeit and pay double the damage done by such dog, further provides that it may be recovered by action of trespass. It only affects the rule for assessing damages. The plea is the same and the judgment is the same, and therefore the case comes within the rule regulating the joinder of causes of action."

It is the practice in this State to try personal injury cases under declarations the separate counts of which charge negligence and willful and wanton misconduct: (*Chicago Terminal Transfer Railroad Co. vs. Gruss*, 200 Ill., 195); and although the rules of law as applied to the separate counts of such a declaration are not the same, it has never been thought for that reason such counts could not be joined in the same declaration. We are of the opinion there was no misjoinder of counts or causes of action in said declaration, but that the counts for negligence at common law and for a willful violation of the statute were properly joined in said declaration.

At the close of the plaintiff's evidence, and again at the close of all the evidence, the defendant asked the court to peremptorily instruct the jury to return a verdict in his favor, which the court declined to do. The evidence introduced on behalf of plaintiff fairly tended to show that he was a minor under the age of 14 years, that he was in the employ of the defendant as a "trapper," for which service he was paid one dollar per day; that it was his duty to open certain doors in an entry in the mine for cars drawn by mules to pass through, and to immediately close the doors after the cars had passed, and to keep them closed except when cars were passing, in order to prevent the escape of air which had been forced into the mine, and, when the cars were stalled in the vicinity of his doors, to assist the driver in starting the cars. He had charge of two doors, situated about 40 feet apart. On the 26th of April, 1902, a train of cars became stalled near appellee's doors. He went to the assistance of the driver, got behind the cars and blocked the rear wheels when the mules stopped, to prevent the train from backing down the grade. When the train was started, to get to the doors and open them that the train might pass through, it was necessary for him to pass the cars when

they were in motion. At a point between where the the cars had stalled and his doors, a timber projected from the wall to within a few inches of the cars. He had passed the place frequently, but testified that he had not observed the proximity of the timber to the cars as they passed it. He was caught between the timber and the cars and seriously injured.

At the time appellee entered the employ of appellant he was under 13 years of age, and had been in its employ about five months at the time of the injury and no affidavit was produced by him to the defendant or its mine manager, at the time he entered its employ, that he was 14 years of age. The statute is as follows: "No boy under the age of 14 years, and no woman or girl of any age shall be permitted to do any manual labor in or about any mine, and before any boy can be permitted to work in any mine he must produce to the mine manager or operator thereof an affidavit from his parent or guardian or next of kin, sworn and subscribed to before a justice of the peace or notary public, that he, the said boy, is 14 years of age." (Hurd's Statutes, 1899, chap. 93, sec. 22.) Section 33 of said act makes any willful neglect, refusal or failure to do the things required to be done by any provision of the act on the part of a person required to do them, or any violation of any of the provisions or requirements of the act, a misdemeanor, punishable by fine or imprisonment. It also enacts "For any injury to person or property, occasioned by any willful violation of this act, or willful failure to comply with any of its provisions, a right of action shall accrue to the party injured, for any direct damages sustained thereby."

If the evidence fairly tends to support the cause of action set out in the declaration it is the duty of the court to submit the case to the jury. We think the evidence found in this record fairly tended to support the several causes of action set out in the different counts of the declaration, and that the court did not err in refusing to take the case from the jury.

It is also urged that the last count of the declaration is insufficient, in that it does not charge a willful violation of the statute. The statute provides that a willful violation thereof, or a willful failure to comply with its provisions, shall give a right of action against the mine owner to a person injured, for any direct damages which the injured party may sustain by reason of such violation. The count charges the plaintiff was under 14 years of age; that the defendant had notice of that fact, yet it wrongfully and unlawfully employed plaintiff and permitted him to work in its mine, contrary to the statute, etc. A willful violation, within the meaning of the statute, signifies a conscious violation thereof. (*Odin Coal Co. v. Denman*, 185 Ill., 413; *Donk Bros. Coal and Coke Co., v. Peton*, 192 *Id.*, 41.) The sufficiency of the count was not challenged by demurrer or otherwise, and we think the averment "wrongfully and unlawfully," found in the count, a sufficient averment of the conscious violation of the statute after verdict.

It is also said that it does not appear that the violation of the statute by the appellant by its employing appellee, who was a minor under the age of 14 years, and without requiring him to produce to the appellant an affidavit that he was 14 years of age, was willful or the proximate cause of the injury. The statute makes it unlawful for a mine owner to employ or permit a boy under 14 years of age to perform manual labor in or about a mine, and further provides that before any boy can be permitted to work in a mine he must produce to the mine manager or operator an affidavit from his parent or guardian or next of kin that he is 14 years of age. The second count of the declaration alleged that appellee was under 14 years of age, and that no affidavit was produced by him that he was 14 years of age, to the defendant, or its manager, at the time he entered the employ of the defendant, and the evidence tended to support the averment. The object sought to be accomplished by the statute was to prevent the employment of boys of immature years in the coal mines of this State, and we think in case the statute is violated and a boy is injured while engaged in performing manual labor which is employed or permitted to do in a mine, the statutory liability for damages has accrued, and in such case the questions of a willful violation of the statute and the proximate cause of the injury are questions of fact for the jury, which facts are conclusively settled by the judgment of the Appellate Court, if there is any evidence in the record upon which to base a finding. *Pullman Palace Car Co. v. Laack*, 143 Ill., 242; *Swift & Co. v. Rutkowski*, 182 *Id.*, 18.

It is urged the Court misdirected the jury on behalf of appellee. The Court gave to the jury one or more instructions in which they were informed that if they believed plaintiff was injured in consequence of the negligence of the defendant, as charged in the declaration, they should find the defendant guilty. The instructions should have been confined to the first count of the declaration, as the right of recovery in the other two counts of the declaration is based upon the willful violation of the statute by the defendant and not by reason of its negligence. But we do not think the giving of said instructions was reversible error. The court, at the instance of the defendant, in its fifth instruction informed the jury, before they considered the question of damages they should first determine whether the defendant was guilty of any of the negligent acts charged in the declaration, and if they found, from the evidence, the defendant was not guilty, there could be no recovery. The court, having been induced by the defendant to commit the same error in the defendant's instructions which the appellant complains the court committed in plaintiff's instructions, this court will not reverse for such error. (*Consolidated Coal Co. of St. Louis v. Haenni*, 146 Ill., 614.) While appellee was not bound to prove negligence in order to fix a liability upon the defendant under the counts of the declaration other than the first, the word "negligence" was used in each of the counts, and if the jury were misled by the instructions complained of, it seems apparent they were misled to the detriment of appellee rather than of appellant, as from said instructions the jury might have inferred that appellee could not recover under any of the counts of the declaration without proving negligence.

The jury were fully instructed as to the provisions of the statute against employing a boy under 14 years of age in a mine and without requiring him to produce an affidavit that he was 14 years of age, and as to what would constitute a willful violation of the statute, and we think it clear the jury understood, from the instructions, they could not find the defendant guilty under the second and last counts of the declaration, unless they found, from the evidence, the defendant had knowingly violated the statute by employing or permitting appellee to work in its mine when he was under 14 years of age and without his producing an affidavit that he was 14 years of age, and that he was injured while performing the manual service which he was employed to perform in the mine.

When the plaintiff was on the witness stand the attorney for the defendant asked him, "Are you willing, if your lawyers consent to it, to be examined by the physicians of the defendant company here, as to your injuries?" An objection was sustained to the question upon the ground it was not proper cross-examination, and the court remarked in ruling upon the question: "I do not suppose the boy could determine this; it ought not to be required of him; it ought to be the adults representing him to determine that." The defendant sought to base an instruction upon the question, the objection and the ruling of the court, to the effect that if the jury believed, from the evidence, that plaintiff, in their presence, in open court, on the trial of the case, with the advice of his counsel, had refused to allow himself to be examined by the physicians of the defendant for the purpose of ascertaining the character of his injuries, they might consider the fact of such refusal in weighing the testimony as to the character of his injuries. There was nothing before the court upon which to predicate the instruction, and it was properly refused.

It is also urged that the court erred in refusing to permit the defendant to prove that its manager ordered appellee out of the mine some months before the injury, when he was working in the mine with his stepfather, because of his being under age. We do not see that there was any error in this. The most the testimony would have tended to prove would have been that the boy was under 14 years of age, and that the manager of defendant, who afterwards put him to work as "trapper," knew the fact.

It is also urged that proof should have been submitted by the plaintiff that his stepfather did not produce to the defendant an affidavit that appellee was 14 years of age at the time he commenced work in the mine. The statute provides that *the minor shall produce the affidavit*. Appellee testified an affidavit was not produced by him. That testimony fully met the requirement of the statute, and plaintiff was not required to go further. If an affidavit was presented by some one other than plaintiff,

and the defendant was of the opinion such fact was material, it should have offered proof of the fact, and in case the same was rejected, preserved an exception if it desired a ruling of this court upon the materiality of such testimony. This it failed to do.

We find no reversible error in this record. The judgment of the Appellate Court will therefore be affirmed.

Judgment affirmed.

The Riverton Coal Company
v.
John E. Shepherd
and
Same v. Charles L. Shepherd.

Appeal from the Appellate Court for the Third District; heard in that court on appeal from the Circuit Court of Sangamon county, the Hon. R. B. Shirley, judge, presiding.

Mr. Justice Wilkin delivered the opinion of the court.

This appeal is from a judgment of the appellate court for the Third District affirming two judgments rendered in the circuit court of Sangamon county, one in favor of the appellee, John E. Shepherd, for \$5,000, and another in favor of his son, Charles L. Shepherd, for \$1,500, both against the appellant, the Riverton Coal company. The suits were for personal injuries growing out of the same accident and are similar in all respects. By agreement of parties they were tried in the circuit court as one case, and are submitted here, as they were in the appellate court, upon one set of abstracts, briefs and arguments.

There are four counts in the declaration. The first alleges that on March 18, 1902, the appellant negligently permitted gas to accumulate in the mine, and on account of the lack of air and presence of dust the explosion resulted. The second count alleges that the appellant wilfully failed and neglected to have the galleries, roadways and entries in said mine thoroughly sprinkled or cleaned, and that by reason of such failure the said galleries, entries and roadways were so dry that air became charged with dust, and this, together with the gasses accumulated, caused said explosion. The third count alleges five violations of the statute, as follows: First, that appellant did not always maintain sufficient currents of fresh air; second, that appellant did not force currents of fresh air into every working place, thus permitting the accumulation of standing smoke and impure air; third that appellant did not split or subdivide the main current so as to give a separate current of pure air to every 100 men; fourth, that appellant did not have a certain permanent door so hung as to close automatically, and that at the junction of a certain crosscut and the southeast entry west, the door was made of cloth, and the day of the accident, and sometime prior thereto, this cloth had been so torn that it did not perform its functions as a door; fifth, that appellant did not have an attendant at certain principal doorways, and that because of the condition of the air and gasses in said entry the explosion occurred. The fourth count alleges that appellant wilfully failed and neglected to thoroughly examine said mine as to air currents, gases, etc. The plea was not guilty and the trial by jury. The circuit court refused proper requests to instruct the jury to find for the defendant as to each count of the declaration. That refusal, with other errors assigned, is urged as ground of reversal.

Briefly, the circumstances attending the injury were as follows: Plaintiffs below were mining coal in defendant's mine, working in a certain room, and on the 18th day of March, 1902, placed two shots, as it is termed, in that room—one west of the center and in the face of the room, and the other in the northwest corner. When they lighted the shots they ran out of the room to a point in the center of the entry about 18 feet west of the center of the mouth of the room. One of the shots, as it went off, threw out a large flame, which ran into the entry where they were and burned them. That shot also threw out a large amount of gas which was not consumed, and as it was followed almost immediately by the second shot, that gas, being hot, was

ignited and they were again burned by the flames, both being severely burned upon their hands and faces. The evidence tends to show that in the preparation of the shots, firing them and running into the entry they exercised reasonable care and skill.

It is first claimed that the trial court erred in permitting Otto Wenneborg to answer a hypothetical question put him. This question is quite lengthy and includes the elements upon which appellees base their case, and from these elements the witness was asked his opinion as to the cause of the explosion. It is claimed that this question assumes that there was coal dust circulating in the air, and does not contain all the elements necessary to a proper answer to the question. An examination of the record shows that the objection as made was not specific and did not point out the elements alleged to have been omitted. It was certainly not the duty of the trial court to go through the record to ascertain whether all of the elements were included in the question, and it was the duty of the appellant to call the specific attention of the court to the admission, and failing to do so it certainly has no cause of complaint in this court. An examination of the evidence, however, shows that the question as asked was in substantial accord with the evidence. If counsel for the defendant claimed that other material facts should have been included in the hypothesis, they had right, on cross-examination, to take the opinion of the witness upon their version of the testimony. On the objection made the court did not err in its ruling upon the question.

We are also of the opinion that the court properly refused to instruct the jury to find for the defendant, there being at least some competent evidence fairly tending to support the several counts of the plaintiff's declaration. Witnesses testified that the curtain across the crosscut, mentioned in the declaration, had been torn for three or four weeks and was in that condition on the date of the accident; that the mine manager and fire-boss had been notified of that fact, and also that the air was bad in the mine by reason of that condition, and were asked to remedy it; that the manager replied that he would do so as soon as he could get the hole in the curtain fixed, or words to that effect, and the fire-boss replied that he had done all he could, and that he had reported it. One of the witnesses asked the fire-boss if he had made this report in the book, to which he replied that he had not, but that he had reported it to the manager, Marsh. Several witnesses testified that the air was bad in the rooms, and that the lamps burned very low during the day and charred the wicks, which was an indication of the presence of gas, called "black damp." Others testified that every time the drivers came in with a in car the mules would kick up a dust and it would rise very thick; that the dust the back entry was at least one inch or more thick, and was composed of fire-clay and coal, which dust had accumulated from the tramping of the mules' feet and the travel in the entry. Witnesses also testified that they had notified the fire-boss and the mine manager of this condition and asked them to sprinkle the entry, and that it was not done because, as was claimed, the water tank was too high for the entry and they could not go down the entry with the tank. This testimony certainly tended to show that the mine was rendered unsafe through the negligence of defendant's employes, and while much of it was contradicted by witnesses for the defendant, it cannot be said that there is a want of evidence to support the plaintiffs' cause of action.

But it is said that notice to the mine manager and fire-boss does not constitute notice to the defendant, and that having employed a competent mine examiner, who was not shown to be guilty of wilfully violating the statute, it cannot be held liable, and that the appellees, who knew the condition, were guilty of such contributory negligence as should preclude their right of recovery. With this position we cannot agree. The State Mine Examiner testified that he visited the mine on Jan. 16, 1902, and then ordered the company's officials to remove the dust from the entry-ways, to sprinkle the roads and put up the canvas sheet. We are unable to see what further evidence of notice to the company could have been given than through this mine manager, and other officials. As to the plaintiffs below being themselves guilty of negligence, it need only be said that even if it were true that they did not exercise due care for their own safety, still, if the evidence fairly tends to prove, as we think it does, a willful violation of the statute, their right of action

would not be defeated. Even under the first count the rule is that "an employé does not assume all the risks incident to his employment, but only such as are usual, ordinary and remain so incident after the master has taken reasonable care to remove them, or if extraordinary, such as are so obvious and expose him to danger so imminent that an ordinarily prudent and careful man would anticipate injury as so probable that in view of it he would not enter upon or remain in the employment." (Chicago & Alton Railroad Co. v. House, 172 Ill., 601.) There is no evidence in this record to show the danger which the plaintiffs encountered was so imminent that any reasonably prudent man would have abandoned the work, and, therefore, in no view of the case can it be said that they were guilty of such contributory negligence as will bar their right of recovery.

We think the appellate court properly disposed of the case, and its judgment will therefore be affirmed.

Affirmed.

The Spring Valley Coal Company,
v.
Alexander Patting.

Appeal from the Appellate Court for the First District—heard in that court on appeal from the Circuit Court of Cook county; the Hon. Elbridge Hanecy, Judge, presiding.

Mr. Justice Hand delivered the opinion of the Court:

This is an appeal from the judgment of the Appellate Court for the First District affirming a judgment for \$10,000 recovered by the appellee, against the appellant, in the Circuit Court of Cook county, for a personal injury sustained by the appellee while in the employ of the appellant as a coal miner. The declaration contained a number of counts, and in various forms alleged a willful violation of the Mines and Miners act by the appellant in failing to provide a sufficient brake with which to control the cage upon which the appellee was being lowered to the bottom of its shaft at the time of his injury, whereby said cage fell and he was injured; also in failing to furnish a sufficient light at the bottom of its shaft down which the appellee was being lowered at the time he was injured, to enable him to get off the cage with safety, whereby he was injured; also charged appellant with negligence, as at common law, in so carelessly, negligently and recklessly operating its machinery that it lost control of the cage upon which appellee was being lowered into its mine, by means whereof the cage, with appellee thereon, was precipitated to the bottom of its shaft, whereby he was injured.

The accident occurred on the morning of November 24, 1903, while appellee and a number of other coal miners were being lowered by appellant into its mine for the purpose of mining coal, upon a cage operated in a shaft 360 feet deep. There was no light at the bottom of the shaft, and the only light in the shaft was that furnished by the miners' lamps. The machinery for operating the brake, which controlled the speed of the cage failed to work and the cage dropped to the bottom of the shaft. The lamps of the miners became extinguished; appellee was thrown from the cage at the bottom of the shaft; the cage, which weighed, with the men thereon, something like 3,500 pounds, rebounded, and the appellee, while attempting in the darkness to save himself from injury, got one of his legs beneath the cage, and his leg was so crushed that it became necessary to amputate the same, and he was otherwise injured. It is undisputed that the failure of the brake which controlled the speed of the cage, to work, was due to the fact that the engineer did not expel from the engine which operated the brake, the cold water produced by the condensation of steam during the time the engine had been standing idle, as was his custom and duty to do before attempting to lower the cage.

A suit upon the same cause of action was, prior to the bringing of this suit, brought by the appellee against the appellant in the United States Circuit Court for the Northern district of Illinois, where he recovered a verdict and judgment for the sum of \$10,000, which judgment, on appeal to the United

States Circuit Court of Appeals, was reversed and a new trial granted. The case was redocketed in the United States Circuit Court, and when it was called for trial, the plaintiff not appearing, the court empaneled a jury to try the case, which jury, under the direction of the court, returned a verdict of not guilty, upon which verdict a judgment was rendered in favor of the defendant. Upon writ of error the United States Circuit Court of Appeals reversed said judgment, and in accordance with the mandate of that court the United States Circuit Court set aside the judgment rendered upon the verdict of not guilty and dismissed the suit for want of prosecution, and within a few days thereafter appellee began this suit. The defendant pleaded not guilty and the statute of limitations. The appellee filed a replication to the plea of the statute, setting up the pendency of the cause of action in the United States Circuit Court and the disposition thereof, to which replication the court overruled a demurrer, and no exception having been taken to the ruling of the court in that regard, the action of the court in overruling said demurrer is not raised in this court.

It is first contended as a ground for reversal in this court that the decision of the United States Circuit Court of Appeals constitutes an estoppel by verdict upon the question of the right of appellee to recover in this case against the appellant upon the ground of the negligence of the engineer of the appellant in failing to expel from the brake engine the cold water produced by the condensation of steam during the time the engine had been standing idle, as was his custom and duty to do before attempting to lower said cage into the mine, on the ground that the United States Circuit Court of Appeals, when the case was therein pending, held, as a matter of law, that the appellee and the engineer of the appellant were fellow servants, and there could be no recovery by appellee against appellant on the ground of the negligence of said engineer by reason of the fact that such relation existed between them at the time the appellee was injured. We do not agree with this contention, as the law is well settled that an estoppel by verdict can be based only upon a final judgment, and the judgment of the United States Circuit Court of Appeals reversing the judgment of the United States Circuit Court and granting a new trial, and the nonsuit which followed, was not a final judgment.

In the case of the *City of Aurora v. West*, 7 Wall. 82, Mr. Justice Clifford, speaking for the Court, said: "Unless a final judgment or decree is rendered in a suit, the proceedings in the same are never regarded as a bar to a subsequent action. Consequently, where the action was discontinued or the plaintiff became nonsuit, or where, from any other cause, except, perhaps, in the case of a retraxit, no judgment or decree was rendered in the case, the proceedings are not conclusive."

In *Bucher v. Cheshire Railroad Co.* 125 U. S. 555, an action at law was brought in the United States Circuit Court for the district of Massachusetts for damages for injuries sustained by the plaintiff through defendant's negligence while a passenger on its railway. Plaintiff had previously brought a similar action in a state court in Massachusetts, where he had recovered judgment, which was reversed, on appeal, by the Supreme Court of that state and the cause was remanded for a new trial, it being held in that court that at the time of his injury plaintiff was traveling in violation of the Sunday laws, which barred a recovery. Afterward the plaintiff became nonsuit and instituted the second action in the United States Circuit Court. On the trial in the latter court the defendant invoked the judgment of the Supreme Court of Massachusetts on the Sunday law as an estoppel. The United States Circuit Court held that the same question having been submitted to the jury in the trial in the state court, and having been passed upon by the Supreme Court of the state, it did not consider there was evidence sufficient to go to the jury upon that subject. The action of the court in that regard was assigned as error in the United States Supreme Court. That court, in disposing of such assignment, said: "Upon this point we are of the opinion that the court below ruled correctly. It is not a matter of estoppel which bound the parties in the court below, because there was no judgment entered in the case in which *ruling of the state court* was made, and we do not place the *correctness of the determination of the circuit court* in refusing to permit this ques-

tion to go to the jury upon the ground that it was a point decided between the parties and therefore *res judicata* as between them in the present action, but upon the ground that the Supreme Court of the state, in its decision, had given such a construction to the meaning of the word 'charity' and 'necessity' in the statute as to clearly show that the evidence offered upon that subject was not sufficient to prove that the plaintiff was traveling for either of those purposes."

In *Gardner v. Michigan Central Railroad Co.*, 150 U. S., 349, the plaintiff, an employé of the defendant, sued the defendant in an action at law for damages occasioned by the alleged negligence of the defendant. He had previously brought a similar action in the State court in Michigan, where he recovered judgment, which, on appeal, was reversed by the Supreme Court of Michigan and a new trial granted, on the grounds that upon the facts proved plaintiff was guilty of contributory negligence and that the negligence conducing to cause his injuries was that of a fellow servant. Upon the case being remanded the plaintiff became nonsuit and thereupon commenced a second action in the United States Circuit Court for the Western District of Michigan, and upon the trial defendant contended that the said judgment of the Supreme Court of Michigan precluded the plaintiff from maintaining that action, but the Supreme Court of the United States, on appeal to that court, overruled such contention. That court said: "Counsel for the plaintiff in error does not contend that the judgment of the Supreme Court of Michigan operated as a bar to this action, but he insists that that judgment precluded the plaintiff from successfully maintaining a new action against the defendant, upon evidence tending to prove only the same state of facts which the evidence before the Supreme Court of the State tended to prove. This assumes a final adjudication on matter of law binding between the parties, and, treating the judgment reversing and remanding the cause as final, applies it as an estoppel, notwithstanding the fact that a non suit was subsequently taken. We cannot concur in this view, and are of the opinion that the circuit court was not obliged to give any such effect to the proceedings in the State Court."

In *Illinois Central Railroad Co. v. Benz*, 108 Tenn., 670, (58 L. R. A. 690,) a case very similar to the one at bar was presented to the court for decision. In that case, in an action for personal injuries, plaintiff recovered a judgment in the United States Circuit Court, which was reversed by the United States Circuit Court of Appeals and the case was remanded for a new trial on the ground that the injury occurred through the negligence of a fellow servant. Upon the case being redocketed in the United States Circuit Court, plaintiff was non-suit and thereafter started a new suit in a State Court of Tennessee. Defendant set up the reversal by the United States Circuit Court of Appeals as an estoppel in bar of the action in the State Court. The Supreme Court of Tennessee, upon review of the foregoing cases, held that the decision of the United States Circuit Court of Appeals did not operate as an estoppel in the State Court.

In *Holland v. Hatch*, 15 Ohio St., 464, the action was at a law upon a bill of exchange. A previous action had been brought upon the same bill in a State Court in Indiana, where the plaintiff had recovered in the trial court, but on appeal the Supreme Court of Indiana reversed and remanded the case for further proceedings, whereupon the plaintiff became nonsuit and thereupon brought second suit in Ohio, where the defendant invoked the said judgment of the Supreme Court of Indiana as an estoppel. On appeal to the Supreme Court of Ohio it is said (p. 468:) "It seems to us, that when the judgment of the Indiana Circuit Court was reversed in the Supreme Court of that State and the cause remanded again to the Circuit Court for further proceedings, the case stood in the Circuit Court as it did before the trial or judgment. The judgment of the Circuit Court had become a nullity by the reversal. The judgment of the Supreme Court was the only thing left to estop the parties, and that simply estops them from denying that the judgment below was reversed and that the cause was remanded. And the final judgment below seems to estop them from denying that the case ended in a nonsuit, and not in a judgment upon the merits."

Great reliance is placed by the appellant upon the case of *Chicago Theological Seminary v. People*, 189 Ill. 439, as an authority sustaining its position that the decision of the United States Circuit Court of Appeals should be held to work an estoppel upon the appellee in this case. That decision was based upon the view that the judgment in the case of *People v. Theological Seminary*, 174 Ill. 177, relied upon as an estoppel, was a final judgment, and it was so treated by the court. The court said (p. 448:) "The judgment rendered by this court in the case last referred to was not merely a judgment reversing and remanding the cause for further proceedings, but it was a judgment which reversed the judgment of the county court and remanded the cause 'for further proceedings in accordance with the views herein expressed,'—that is, in accordance with the views expressed in the opinion in that case. * * * A judgment rendered by this court reversing and remanding a cause for further proceedings in accordance with the views expressed in the opinion rendered is a final judgment, so far as the questions decided in the opinion are concerned." The decision, therefore, in *Theological Seminary v. People*, supra, is not an authority sustaining the position that the decision of an appellate court reversing a case and remanding the same for a new trial, in which case the plaintiff afterwards submits to an involuntary nonsuit, can be pleaded in another suit commenced upon the same cause of action, as an estoppel, and is not in conflict with the authorities above referred to.

When a cause is reversed by an appellate tribunal and remanded for a new trial the principles announced by the appellate tribunal in its opinion, on a retrial of the case in the court, to which the case is remanded, must control, but where, upon remandment, the cause is dismissed or the plaintiff suffers a nonsuit and a new action is brought upon the cause of action in another forum, the principles of law announced by said appellate tribunal will not necessarily control in the decision of the case in the new forum. In *Gardner v. Michigan Central Railroad Co.* supra, it was held that the responsibility of the appellee in that case to the appellant, as an employé, was involved, which responsibility was controlled by matters of general law, and that in applying the law to the case then before the court it was the duty of the court to apply the law of the forum wherein the case was then pending, and it was not the duty of the court to apply the law as announced by the Supreme Court of Michigan. The same holding was made in *Illinois Central Railroad Co. v. Benz*, supra. It was not, therefore, the duty of the State court to apply the rule upon the question of fellow-servants announced by the United States Circuit Court of Appeals in this case, as the rule as to what constitutes the relation of fellow servants between servants of a common master is a matter controlled by general law, and the law upon this subject is different in the Federal courts from what it is in this State as administered by the courts of this State.

It is next contended that the trial court erred in not submitting to the jury the question whether or not the relation of fellow-servants existed between the appellee and the engineer of the appellant at the time of the injury. The engine room in which the engine which operated the brake which controlled the speed of the cage upon which the appellee was being lowered into the mine was located, was sixty feet from the mouth of the shaft. The appellee was not acquainted with the engineer, and was forbidden, as were all other miners, access to the engine room. The duties of the engineer were to operate, by means of the engine under his control, the moving of the cage up and down the shaft upon which the men were carried to and from their work in the mine, and upon which empty cars were sent into the mine and loaded cars drawn up to the surface of the ground, and to control the brake which regulated the speed of the cage as it ascended or descended in the shaft. His action in raising and lowering the cage was controlled by signals given him by a man who was stationed at the top and another who was stationed at the bottom of the shaft, while the duty of the appellee was to mine coal in the mine. The duties of the two men never brought them together in the discharge of their respective duties. So far as appears they never met. Indeed, their duties were as disconnected as if they were employed by different masters and performed their labors in places having no connection whatever with each other. *The respective duties of the appellee and said engineer did not bring them into association with each other and did not in any man-*

ner require them to act or cooperate with each other. In view of their duties and relations to each other, within the rule announced in this State, the facts being undisputed, we think the Court properly refused to submit to the jury the question whether or not the relation of fellow-servants existed between them. While it is true, generally, that the question whether the servants of a common master are fellow-servants is a question of fact for the jury, (*Norton Bros. v. Nadebok*, 190 Ill. 595,) when the facts are conceded or there is no dispute with reference thereto, and all reasonable minds will agree, from the evidence and the legitimate conclusions to be drawn therefrom, that the relation of fellow-servants does or does not exist, then the question becomes one of law, and not of fact. *Chicago & Eastern Illinois R. R. Co. v. Driscoll*, 176 Ill. 330; *Norton Bros. v. Nadebok*, *supra*.

Lastly the appellant contends that the Court improperly refused to instruct the jury that if the appellee knew there was no light at the bottom of the mine and with such knowledge he voluntarily descended into the mine, he could not recover by reason of the absence of such light on the morning of the injury. This Court has held that contributory negligence is no defense to an action against a mine owner if an injury results to a miner by reason of a willful violation of the Mines and Miners act, (*Western Anthracite Coal and Coke Co. v. Beaver*, 192 Ill. 333,) and we think the same reasoning applies to the doctrine of assumed risk. The statute expressly requires the mine owner to furnish a sufficient light at the top and bottom of the shaft to insure, as far as possible, the safety of persons getting on and off the cage. To excuse the mine owner from a compliance with said statute upon proof of the fact that the miner knew the mine owner was violating the statute would be to repeal the statute. It is clear, however, the refusal of the instruction did not prejudice the appellant, as it appears the appellee was injured by the negligence of the engineer in charge of the engine which operated the brake that controlled the speed of the car, and unless the engineer was a fellow-servant of the appellee, which we have held he was not, appellant is liable and the judgment should be affirmed.

The judgment of the Appellate Court will be affirmed.

Judgment affirmed.

The Consolidated Coal Company of St. Louis

v.

Charles P. Fleischbein, Admr.

Appeal from the Appellate Court for the Fourth District; heard in that court on appeal from the Circuit Court of St. Clair county, the Hon. M. W. Schaeffer, judge, presiding.

Mr. Justice Magruder delivered the opinion of the court.

The questions in this case are nearly all questions of fact, and are settled by the judgment of the circuit court, and the judgment of the appellate court affirming the judgment of the circuit court. No instructions upon the trial below, were asked by the plaintiff, the present appellee. Upon the trial, the court gave 21 instructions on behalf of the appellant, and at its request. The court refused to give four instructions, numbered from 23 to 26, inclusive, asked by the appellant. No complaint is made of the refusal of the court to give these four instructions. Very little objection is made as to the admission or rejection of evidence by the trial court.

The main error complained of is, that the trial court refused to instruct the jury to find for the defendant. This raises the question whether there was evidence, tending to sustain the cause of action, as set up in the declaration, and if there was such evidence, tending to sustain the cause of action, as set up in the declaration, and if there was such evidence, the court did not err in refusing to instruct the jury to find the defendant not guilty.

The main contention on the part of counsel for appellant is that Bowen, deceased, and Zink, the mine manager, were fellow-servants at the time Bowen was injured, and that they were both directly engaged in the same line of employment as drivers, and that Bowen was not injured, as the result of any negligent act of Zink done as a vice-principal of the company.

It was the duty of Bowen to haul the empty cars or boxes from the bottom of the shaft of the mine to a certain "parting" or switch in the main entry, and to haul the loaded boxes or cars from the parting or switch to the bottom of the shaft to be hoisted to the surface. Leading from this parting in the direction of the shaft was a very steep decline. In order to haul the loaded boxes down this decline in safety, it was necessary use "sprags," which were pieces of wood about two feet long placed in the wheels to control the speed of the load. They would be placed in the wheels in this parting, and taken out between 50 and 75 feet from the point of the parting at a place designated by the witnesses as a "swag," which was in reality a depression in the track. There was also a sharp curve between this swag and the shaft, and it is admitted that a driver could easily tell whether a train of four cars, drawn by a mule, was all following. The evidence tends to show that this entry was very dusty, and that the air, traveling from the bottom of the shaft towards the parting or switch, carried the dust in the face of a driver going towards the shaft. The evidence tends to show that the dusty condition of the entry was well known to the pit-boss, Peter Zink, and that he had been repeatedly notified of it by the miners. One witness says that there were "clouds of dust," and another, who was the track layer of the mine, testified that "it was so dusty you could hardly see anything." The evidence also tends to show that, where four of these loaded boxes or cars were drawn by a mule down the decline towards the shaft, the boxes were liable to become uncoupled and to be left in the entry. It appears, however, that where a train of four box cars is in motion, one of the cars cannot become uncoupled without a jar or jam, so that the driver, if he loses a box, will know of it at the time when it happens.

The injury occurred on April 21, 1902, about 4:00 o'clock in the afternoon. At that time Zink, the pit-boss, went to the deceased, Bowen, at the parting or switch, and complained that the coal was not coming out fast enough. The pit-boss then took a mule, which was said to have been a "spoiled" mule—that is to say, a mule which had been whipped or otherwise maltreated in such a way that it would not haul as large a number of loaded cars as it was able to do—and with this mule, hitched to four boxes or cars, started to haul them from the parting or switch to the bottom where the shaft was. When Zink, the pit-boss, reached the swag, he pulled his sprags, and then directed Bowen to start with his load. The evidence tends to show that the pit-boss called to Bowen, and said: "All right, come ahead." The pit-boss testifies that he gave no such direction to Bowen, but was merely talking to the mule, but his evidence on this subject is somewhat indefinite, as he states that he does not know exactly whether he made use of these words, or not. There is other testimony, however, tending to show that they were used, and that they were intended for Bowen.

As has been said, it sometimes happened that one of the cars, drawn by the mule towards the shaft, would become uncoupled, and the evidence is quite clear that in this case, when Zink went with his load towards the shaft, one of his cars did not become uncoupled, and was upon the track in the main entry. Zink admits in his testimony that he lost one of his cars, but did not know where or at what point it became uncoupled. When Zink uttered the words: "All right, come ahead," Bowen started down the hill with his load, driving the mule which hauled the loaded cars. We discovered no evidence in the record tending to show that he was not in the exercise of due care for his own safety. It appears that his load was carefully "spragged," that is, blocked, so as not to proceed with too great a speed. When near the swag or depression in the track or entry, Bowen came in contact with, and struck, the box or car of coal which Zink, the pit-boss, had left upon the track in the entry. The evidence tends to show that the mule which was in front of Bowen, turned to the side, and escaped injury, while Bowen was crushed between the forward car of the train, which his mule was hauling, and the box-car, which had been left upon the track by Zink, the pit-boss. His injuries were so serious, that he died in a few days after the accident. The evidence tends to show that, after passing beyond the swag or low point, there is a down grade for a considerable distance beyond the sharp curve, and the mo-

mentum gained in going down the incline was so great, that the impact of the collision caused the car, left on the track by Zink, to move forward and around the curve.

The negligence charged is, that the pit-boss left a loaded coal box in a dark, dusty entry on a down-grade, and then ordered Bowen, who did not know that such loaded coal box had been left upon the track in the entry, to proceed down the hill with his loaded cars. It is not denied that Zink was the pit-boss, and a vice principal of the company. Such a boss in a coal mine is the company, so far as employes are concerned. In this case Zink testifies as follows: "I was pit-boss at Richland mine when Bowen was hurt. I lost a car on the trip preceding Bowen in going out. I can't say where I lost that car. * * * I had full supervision of the mine and of the men, and the power to discharge and employ the men, and the power to order and direct Bowen, and I was the pit-boss and acting as such that day, and had charge of Bowen and the other men, and could give them orders."

It is not denied that the position of Zink, as pit-boss, was such as he states it to be in his testimony, and it is conceded by counsel for appellant that, if the negligent act, of which he was guilty, was performed, while he was acting as the vice principal of the company, the company would be liable.

But the contention of appellant is that, when Zink, the pit-boss, undertook to drive a mule, hauling four loaded cars from the parting or switch to the bottom of the shaft, he abdicated his position of vice principal, and was engaged as a driver, just as Bowen was engaged, and, therefore, that he and Bowen were fellow-servants. If the negligent act of Zink, which caused the accident, was the act of a fellow-servant of Bowen, then the company would not be liable. The fact, that Zink did not abdicate his position as superintendent, is apparent from the further fact, that he ordered Bowen to come ahead with his load, and thereby still assumed to control the action of Bowen.

In *Chicago & Alton Railroad Co. v. May*, 108 Ill., 288, we said (p. 298): "The mere fact that one of a number of servants, who are in the habit of working together in the same line of employment for a common master, has power to control and direct the actions of the others with respect to such employment, will not of itself render the master liable for the negligence of the governing servant, resulting in an injury to one of the others, without regard to other circumstances. On the other hand, the mere fact that the servant exercising such authority, sometimes, or generally, labors with the others as a common hand, will not of itself exonerate the master from liability for the former's negligence in the exercise of his authority over the others. Every case, in this respect, must depend upon its own circumstances."

The first count of the declaration avers that, "while in the performance of his said work in hauling a load of coal cars from said parting to the bottom of the shaft, and while acting under the orders of said mine manager, and in the exercise of reasonable and ordinary care and caution for his own safety, said Robert Bowen ran against and collided with said loaded coal cars, carelessly and negligently left standing in said entry at said place by said mine manager of defendant, and which box could not be seen by said Robert Bowen on account of the dust in said entry."

In *Norton Bros. v. Nadebok*, 190 Ill., 595, we said (p. 600): "When the appellee was ordered by his superior servant to put his hand into the machine and take out the 'catch,' in the absence of any warning or notice he had the right to assume that his superior, who gave the order, would not by his own negligence make the act, which he had commanded him to do, and which he was bound to obey, unsafe." So, in the case at bar, when Bowen was ordered by his superior to "come ahead," in the absence of any warning or notice he had the right to assume that his superior, who gave the order, would not by his own negligence make the act, which he had commanded him to do, and which he was bound to obey, unsafe."

The commands, which a vice-principal, who is a direct representative of the company, gives within the scope of his authority, are the commands of the company, and, if such commands are not unreasonable, those under his charge are bound to obey at the peril of losing their situations. Hence, the company

will be held responsible for the consequences. (Illinois Steel Co. v. Schymanski, 162 Ill., 447.) The mere fact that Bown and Zink were working together in hauling coal from the parting to the bottom of the shaft, would not necessarily relieve appellant from liability. In Pittsburg Bridge Co. v. Walker, 170 Ill., 550, this court, quoting from Chicago & Alton Railroad Co. v. May, *supra*, said (p. 554): "The mere fact, that the servant, exercising such authority, sometimes, or generally, labors with the others as a common hand, will not of itself exonerate the master from liability for the former's negligence in the exercise of his authority over the others. * * * When the negligent act complained of arises out of, and is the direct result of, the exercise of the authority conferred upon him by the master over his co-laborers, the master will be liable. In such case, he is not the fellow servant of those under his charge with respect to the exercise of such power, for no one but himself in the case supposed, is clothed with authority to command the others."

In Consolidated Coal Co. v. Gruber, 188 Ill., 584, we said (p. 588): "If the action was taken by him in the discharge of his duties as vice-principal, his position was one of superiority, and not that of a fellow-laborer. The fact, that, in the discharge of his duties as assistant mine manager, he engaged temporarily in work, usually performed by Nagle, would not justify the declaration, as matter of law, that he became a fellow-servant of the appellee."

In the case at bar, the pit-boss was displeased that the coal was not taken out, or taken up fast enough, and proceeded himself to take a load of coal down to the shaft quickly and rapidly, and ordered Bowen, whom he preceded, to come along after him as soon as he reached the "swag." His acts, as well as his words, were a part of his efforts to hurry along the work, and increase the amount of coal taken out. He was acting in all respects, not merely as fellow-laborer or fellow-servant, but as a superintendent, directing the conduct of Bowen, so as to make the efforts of the latter speedier and more efficient. We cannot see that there was anything in the facts of the case, which indicated any abdication of his authority by Zink, so as to make him a mere fellow-servant of Bowen.

But, the question whether the relation of fellow-servant exists in a given case is one for the jury, unless the facts, admitted or proved beyond dispute, show the existence of the relation within the definition of fellow-servant, as given by the court, in which case it becomes a question of law. (Hartley v. Chicago & Alton Railroad Co., 197 Ill. 440.) In other words, where the facts are conceded, or where there is no dispute whatever as to the facts, and they show beyond question that the relation of fellow-servant exists, then the question may become one of law. But here the facts are not conceded, but are sharply contested.

The question, whether or not Zink and Bowen were fellow-servants, was submitted to the jury under the instructions of the court, asked by the appellant itself, and that question is finally settled by the judgments of the lower courts. (Slack v. Harris. 200 Ill. 96.) In instruction seven, given for the appellant, the court told the jury that "it is necessary for the plaintiff to prove to you that the mine manager at the time the deceased was injured was not a fellow-servant of the deceased."

In the tenth instruction, given for the appellant, the jury were instructed as follows: "And it is not enough to prove that the car was left in the entry by the mine manager, but, before the plaintiff is entitled to recover under this count, he must prove that the car was negligently left by said mine manager; that said mine manager was not, at that time, a fellow-servant within the meaning of the instructions given you, and that the deceased was using due care for his safety to prevent this collision; and, if he has failed to prove all and each of these things, he cannot recover." By this instruction and others, asked by the appellant, the question, whether or not the pit-boss and the deceased were fellow-servants, was left to the jury to be determined by them as a question of fact. They found against the appellant upon this question of fact under the instructions given them, and so far as we are concerned, the question is settled.

We are, therefore, of the opinion that the trial court committed no error in refusing to instruct the jury to find the defendant not guilty, inasmuch as the contention of the appellant's counsel, that such instruction should have

been given, is based upon the further contention that the relation of fellow-servants existed between the mine-boss and the deceased, as a matter of law. Having been a question of fact and not a question of law it was properly submitted to the jury.

Counsel for appellant discuss in their brief certain questions of fact, such as whether there was a collision between Bowen's train and the car left upon the track by the pit-boss and whether the deceased was guilty of such contributory negligence as should prevent a recovery, and whether or not the entry was dusty, and whether or not there was room at the side of the car at the place where deceased was hurt to have enabled him to escape injury if there was a car upon the track. All these were questions of fact and were properly submitted to the jury under the instructions and are settled by the judgments of the lower courts.

We see no reason for reversing the judgment of the Appellate Court and accordingly that judgment is affirmed.

Judgment affirmed.

MANAGERS HOLDING CERTIFICATES OF COMPETENCY.

This list includes all the mine managers to whom certificates have been issued prior to Jan. 1, 1905.

Names which are printed in *italics* are those who hold both certificates of competency and subsequent certificates of competency acquired through examination.

Names which are followed by the abbreviation "ex" are those who exchanged certificates of service for those of competency, without examination, under the provisions of the amendment of 1895. Names followed by "d" are deceased.

Postoffice addresses here given, and in all the lists following, are those at the time the certificates were issued, and in many cases are not the present addresses of the certificate holders.

Name.	Postoffice.	Name.	Postoffice.
Charles T.	Rosboro	Barratt, John C.	Duquoin
M.	Wanlock	Harron, James, ex.	Cantrall
Samuel	Taylorville	Barrowman, James.	Braidwood
Samuel, Jr	Taylorville	Bartlett, Thomas, ex.	Cuba
Thomas	Taylorville	<i>Bashong, Andrew.</i>	Danville
meas.	Streator	<i>Barwell, John.</i>	Marrissa
J.	Collinsville	<i>Bates, W. H.</i>	Winchester
id T.	LaSalle	Bates, R. D.	Winchester
W C.	Elmwood	Baumer, Fred	Marquette
James	Ladd	Bauer, Valentine	Clyde
James C.	Streator	Baxter, William	Ladd
John M.	Streator	Heughan, Peter	Cantrall
ug.	Belleville	<i>Beattie, Richard.</i>	Murphysboro
in	Belleville	Beattie, John	Danville
ar es.	Belleville	Beatty, James	Mascoutah
William R.	Springfield	Beatty, James H.	Mascoutah
John E.	Peoria	Beatty, Nephi	Mascoutah
Joseph	Coal City	Becker, Henry	Peoria
Edward	Streator	Becker, Peter	Petersburg
J G.	Pekin	Becker, F. W.	Pinckneyville
William	Murphysboro	Becker, Charles	Staunton
William	Braceville	Reese, John	Hickner
Thomas J.	Spring Valley	Beharrelle, Fred	Orchard Mines
William C.	Marion	Bell, Richard	Gillespie
hn	Barclay	Bell, William	Streator
ber, ex.	Girard	Belger, John	Nilwood
David	Fairmount	Beltz, Andrew	Harrisburg
omas	Freeburg	Bengston, John A., ex.	Galva
.....	Edwardsville	Bennett, James	Odin
.....	Petersburg	Bennett, John	Centralla
stav	Streator	Berkstresser, W. A.	Duquoin
mas	Mapleton	Berry, Jesslar	Greenview
William	Athens	Beets, Joseph E.	Belleville
eph	Duquoin	<i>Betz, Charles C.</i>	Duquoin
rd	Bartonville	Bevard, John J.	Kinmundy
ry	Coffeen	Bevard, F. C.	Carterville
W	Johnson City	Beveridge, David	Sorento
es	Braidwood	Bevgs, Samuel, ex.	Clark City
er	Bryant	Biebel, Henry, ex.	Rentchler
		Biggins, James	Sorento
		Bingham, Robert	O'Fallon

Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Bird, George W	Coffeen	Clark, Edward	Decatur
Birtin, Henry	Pana	Clark, Quinton	Braidwood
Birtley, William P	Springfield	Clark, Thomas	Decatur
Blair, Gus	Murphysboro	Clark, John	Decatur
Blair, Herbert	Divernon	Clayton, Frank	Troy
Blackenship, Wm. F	East Peoria	Clelland, Robert	Braidwood
Blankinsopp, Thos. N	Cable	Clifford, Michael J	Kewanee
Boettcher, F. J	Athens	Coar, Firman	Worden
Boston, G. W	Murphysboro	Callier, Frank J	Bartonville
Boston, James	Duquoin	Collins, Richard J., ex	O'Fallon
Bottomly, Edward	Oglesby	Combs, James W	Kewanee
Bottomly, John	Oglesby	Conford, L	Cantrill
Bowers, Robert	Wenona	Condis, Malcomb	Spring Valley
Bowie, James	Braidwood	Conity, Patrick	Duquoin
Bowie, George	Braidwood	Cooper, Charles	Nilwood
Boyer, J. A	Farmington	Cook, Robinson	Riverton
Bracken, James A	Greenview	Cook, William	Peoria
Bradenberger, F	Belleville	Condon, Charles H	Hanna City
Brennan, John I	Virden	Connors, William	Toluca
Brennan, Patrick	Toluca	Connell, Nichol E	Peoria
Bressmen, William	Springfield	Conrad, William	Springfield
Brockhouse, Samuel	Caseyville	Costello, Henry	Pana
Brigham, William	Marissa	Castor, George	Grape Creek
Brooks, Peter	Taylorville	Corrigan, James	Marseilles
Brown, John	Glen Carbon	Courtney, James D	Westville
Brown, Thos. Marshall	Pinckneyville	Cowell, William	Assumption
Brown, William J	Coal City	Cox, Eugene	Centralia
Brown, William F	Pontiac	Crane, John E	Murphysboro
Brown, James B	Murphysboro	Crane, B. S.	Murphysboro
Brown, F. M.	Farmington	Crampton, Edward	Murphysboro
Browning, J. M.	Duquoin	Crauch, J. E.	Virden
Brueckner, Emil	Staunton	Crankshaw, Thomas	Decatur
Brueggeman, George	Belleville	Crankshaw, William	Decatur
Bulmer, John, ex	St. John	Chrichton, Dawson	Taylorville
Bulmer, Benjamin	Muddy Valley	Crighton, Robert	Chenon
Bundy, John	Streator	Crowder, Richard A.	Moccasin
Burdett, J. P.	Colchester	Cruickshanks, John	Farmington
Butzke, Frank	Springfield	Cruickshanks, Walter E.	East Peoria
Burke, George, ex	Peru	Cruickshanks, William	Middle Grove
Burkhardt, John B	Mt. Olive	Cryer, James T	Spring Valley
		Cumming, Ambrose B.	Spartan
		Cumming, James P	Spartan
		Cumming, John P	Braceville
		Cumming, Thomas S	Gardner
		Cumming, D. H.	Gardner
		Cunningham, Thomas	Girard
		Cunningham, Cormick	Springfield
		Curne, Adam	LaSalle
Callear, Isaac	Pottstown		
Cameron, David J	Pana	Daenzer, Anton	Belleville
Cameron, D. S., ex	Sorento	Dale, Henry	Murphysboro
Cambell, William	Sandoval	Dale, John	Fredonia
Campbell, Frank J	Athens	Daniels, James	Belleville
Campbell, Thos. N., (d.)	Pinckneyville	Daniels, Samuel	Belleville
Campbell, H. J.	Assumption	Daniels, Alexander	Henry
Campbell, R. W.	Decatur	Danney, William	Lincoln
Canfield, R. A.	Madisonville, Ky	Davis, Calis	Collinsville
Cardwell, Elliott	O'Fallon	Davis, J. H.	Cuba
Carroll, A. W.	Gillespie	Davis, Thomas	Dunfermline
Carlson, Andrew	Colfax	Davis, P. J.	Peru
Carson, J. H.	O'Fallon	Davis, William	Litchfield
Carson, Chas. W.	Wolcott	Davis, William H.	Streator
Carter, Charles	Birkner	Davidson, M.	Duquoin
Carter, George	Birkner	Davidson, James	Spartan
Cartledge, Oscar	Gillespie	Davenport, John	Harrisburg
Carroll, John, (d.)	O'Fallon	Dawkins, William E.	Belleville
Caarlon, J.	Oglesby	Dawson, Daniel	Campbell Hill
Casey, James F	Selbytown	Dawson, Richard	Athens
Catheart, Matthew, ex	Tilden	Deans, Henry	Percy
Center, George H.	Hallidayboro	Deaton, Abraham L.	Middletown
Chalderton, John	Lenz Station	Deeney, George H.	Farmington
Chambers, William	Spaulding	Denny, John L.	Springfield
Charlton, George R	Greenview	Denny, Lawrence	Springfield
Cherry, John T.	Seatonville	Devlin, Henry	Toluca
Cherry, James	Seatonville	Devlin, Thomas H.	Spring Valley
Cherry, W. S.	Streator	Diamond, Peter	Campton
Chere, George	Pleasant Plains		
Checkin, David	Reed City		
Chivers, Joseph	Braceville		
Chenolly, Terrance J	Assumption		
Christie, David	Murphysboro		
Church, Henry M	Marissa		
Clark, Martin	Decatur		

Certificates of Competency—Continued.[illegible]

Certificate of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Hall, Matthew	Braceville	Hammert, Henry	Breese
Halsel, Daniel	Leonsburg	Hampbreys, Edward	Murphysboro
Halbert, J. A.	Westville	Hunt, Albert J.	Edwards
Halbert, W. S.	Westville	Ilattou, James, ex	Tallula
Hamilton, Thomas	Nashville		
Handwright, James	Virdeu		
Hanley, John H.	Springfield	Iberson, James	Athens
Hannah, Thomas	Illes Junction	Irwin, James M.	Pontiac
Hardin, Joseph H.	Vandercook	Isinghaus, William	Lebanon
Harding, Enos	Birkner	Izat, William	Litchfield
Harding, Thomas F.	Danville		
Harding, William	Lebanon		
Hardy, Rufus E.	Murphysboro	Jackson, George W.	Cable
Harkes, William	Coal City	Jacobson, Charles P.	St. David
Harper, William J.	Springfield	James, John	Mt. Olive
Harper, John	Colchester	James, Johan	Grape Creek
Harrison, Earnest	Streator	Jaques, William	Belleville
Harrison, John	Virdeu	Jaques, Richard	Belleville
Harrison, John, ex	Odin	Jedurd, R. H.	Kingston Minn.
Harrison, William	Murphysboro	Jefford, Thomas H., ex	Kingston
Harrison, James	Athens	Jeffrey, Peter	Cartersville
Harrop, James T.	Seatonville	Jenkins, Alexander	Dunfermline
Hartman, Frank, ex	Murphysboro	Jenkins, David	South Danville
Hartman, Wm.	Freeburg	Jenkins, Thomas C.	Murphysboro
Hasseltou, F. D.	Spaulding	Jenkins, J. A.	Dunfermline
Haskins, George H.	Grape Creek	Jenkins, John L.	Fairbury
Haskins, Joseph	Grape Creek	Jermier, William M.	Duquoin
Hauck, Fred	Glen Carbon	Jerrell, John W.	Equality
Hawkins, Sidney	Belleville	John, Evan D.	Spaulding
Haydon, J. S.	Springfield	Johnson, William	Danville
Hayes, Webster	Edwardsville	Johnson, Cochran	Spring Valley
Heves, Henry	Streator	Johnson, Samuel	Oglesby
Hebenstreit, Bruno	Staunton	Johnson, William	Marion
Hebenstreit, E. W.	Staunton	Jolly, Thomas F. (d)	Collinsville
Hebenstreit, T. G.	Staunton	Jones, Charles	Marion
Hebenstreit, J. P.	Staunton	Jones, David	Marion
Heiple, Walter	DeSoto	Jones, D. L.	Taylorville
Helrich, Henry	Rentchler	Jones, John T.	Lebanon
Henderson, Edward	Springfield	Jones, Edward	Oglesby
Henderson, Joseph	Coal City	Jones, Harry D.	Riverton
Henderson, Thomas	Marion	Jones, John H.	Duquoin
Hendricks, Chas. W.	Belleville	Jones, Logan	Marion
Henley, J. H.	New Athens	Jones, Robt. R.	Oglesby
Henley, Richard	Niantic	Jones, T. L.	Ladd
Heppard, George	Tilden	Jones, William	Marion
Henry, Frederick	Kewanee	Jones, William E.	Shelfield
Henry, John T.	Pontiac	Jones, William E.	Wesley City
Henry, Philip	Kewanee	Jones, William M.	Tamara
Heriot, James	Spring Valley	Jordan, Robert (d)	Streator
Hetherington, Benj. M.	LaSalle		
Hiblerd, George	Peoria	Kable, Joseph	Coulterville
Hickey, John	Springfield	Kane, Charles H.	Dunfermline
Hicks, Richd. J.	Sherrard	Kaney, John	Centralia
Higbee, A. W.	Wyoming	Kay, John	Pawnee
Higbee, James	Wyoming	Kay, James	Sherrard
Hill, Marshall	Cartersville	Karral, Charles	Westville
Hillary, Edward	Colchester	Karral, Edgar	Braceville
Hind, John A.	Moline	Keating, James A.	Streator
Hindson, Harvey	Canton	Keay, A. H. S.	Seatonville
Hissong, Charles	Tilden	Keay, John (d)	Springfield
Hoffman, John	DuQuoin	Keefe, Edward	Colfax
Holmes, Thomas F.	Lincoln	Keefer, William	Danville
Horning, Charles A.	Harrisburg	Kell, Matthew	Dubois
Houston, Robert	Percy	Dell, Peter	Dubois
Howell, Thomas H.	DuQuoin	Kelley, Bernard	Litchfield
Howell, D. J.	DuQuoin	Kelley, D. J.	Carbon Hill
Howells, Kben (d)	Braceville	Kelly, Frank S.	Centralia
Howells, T. J.	DuQuoin	Kelley, Joseph G., (ex)	Braidwood
Hoy, James	Braidwood	Kelley, Robert D.	Carbon Hill
Hoye, William	Braidwood	Kelley, J. D. Sr.	Carbon Hill
Hoddy, T. H.	Staunton	Kempper, Henry	Gillespie
Hudson, Thomas	Etherly	Kenney, Thomas	Springfield
Hughes, James	Braidwood	Kerr, John	Rushville
Hughes, John W.	Braidwood	Kidd, Alexander	Oglesby
Hughes, Hugh J.	Pana	Kidd, Andrew	Oglesby
Hughes, John J.	Litchfield	Kidd, W.	Oglesby
Humme, J. A.	Hillary	Kidd, Neugena	Oglesby

Certificates of Competency—Continued.

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Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
McKeown, Frank	Decatur	Postle, John	Braceville
McKernan, Jas	Collinsville	Powell, Albert E	Belleville
McLearn, Archibald	Collinsville	Powell, Evan	Murphysboro
McLaughlin, Wm	Auburn	Powell, David, ex	Braceville
McLaughlin, Wm	Ava	Powell, J. E	Sato
McLaughlin, John	Girard	Powell, Thomas H	Belleville
McLean, Robert	Girard	Powell, Samuel	Roanoke
McManamon, Patrick F	Spring Valley	Price, William	Braceville
McMorrow, Michael	Farmington	Prince, Thomas	Gillespie
McMath, George	Carterville	Proctor, Michael J	Toluca
McMurtie, A. B	Bryden	Prudent, Edward	Centralia
McWhinney, Andrew	Viriden	Pryce, John M	Coal Valley
McMorrow, Thomas	Farmington	Pugh, Daniel	St. John
McNabb, Wm	Athens	Pullen, Charles	Litchfield
		Pullen, James	Sorento
		Pye, William	Bartonville
Neal, Reese	Kangley		
Neal, Albert M	Murphysboro	Raby, Robert A	Cuba
Neal, Wm	Murphysboro	Radford, Thomas, ex	Bloomington
Needles, Thadeus	Glenburn	Radford, William	Cuba
Neeson, Richard	Divernon	Radford, James	Springfield
Neil, Peter, ex	Bunker Hill	Radford, William T	Bloomington
Newcomb, H. C	Pana	Rae, Robert	Braidwood
Newman, Henry T	Springfield	Ramsey, Charles J	Gillespie
Newsam, John	Kingston	Randle, Jesse	Birkner
Newsam, Richard	Orchard Mines	Rarick, Phil. W	Glen Carbon
Newsam, Richard, Jr	Kingston Mines	Ratcliffe, Arthur	Kewanee
Newsam, Thomas	Kingston Mines	Rauth, John	Belleville
Newsam, Thomas, Jr	Kingston Mines	Rasmussen, James E	Mineral
Nesbit, Charles, ex	Millstadt	Rasbottan, Frank	Kingston
Nevenner, John	Belleville	Reagan, Daniel	Muddy Valley
Nevill, George W	Duquoin	Reavley, Robert	Riverton
Nicholson, George A	Cuba	Redyard, John	Odin
Nicholson, Wm	Cuba	Reeb, Phillip	Belleville
Nixon, Robert	Viriden	Reed, W. M	Girard
Noll, Peter	Belleville	Reed, Wm. B	Willsman
Nold, Fred	Freeburg	Reents, August	Kramm
Nordeen, Peter	Galva	Reece, Daniel	Danville
Nordness, C. K	Girard	Reid, Andrew	Springfield
Notman, George	Streator	Reid, Joseph	Marion
		Reiley, Edward	Danville
O'Beirne, John	Spring Valley	Reimann, John	Belleville
O'Brien, John W	Toluca	Rennison, Henry	St. John
O'Brien, John J	Marquette	Reynolds, William	East Peoria
O'Brien, James	Belleville	Reynolds, John	Streator
O'Brine, Patrick J	Spring Valley	Rhodes, Jefferson	Pana
O'Brine, Wm	Pana	Richards, John	Murphysboro
O'Connor, James	Spring Valley	Richardson, Joseph	Litchfield
O'Connor, John	Braidwood	Richardson, Robert	Carterville
O'Connor, Patrick F	Paisley	Ridgley, O. L	Mt. Olive
O'Leary, John	Marquette	Ritchie, Alex., Sr	Clinton
Opie, Wm	Sandoval	Ritchie, A., Jr	Trenton
Owen, Wm	Tallula	Rittmann, J. J	Decatur
Owens, Robert	Marion	Roberts, Benjamin D	Streator
		Roberts, Hiram	Collinsville
Parker, Albert	Collinsville	Roberts, John D., ex	Streator
Passent, Wm. C	Barclay	Roberts, Thomas D	Streator
Patchet, John	Murphysboro	Robinson, Henry	Gardner
Patterson, J. C	Assumption	Robinson, John T	Kingston Mines
Payne, Harvey	Riverton	Robinson, L. E	Kingston Mines
Peart, John	Braidwood	Rodden, John	Pana
Penwell, C. T	Pana	Rodenburg, Charles	Belleville
Percell, Thomas	Norris	Roe, Samuel	Oglesby
Peters, J. D	Murphysboro	Roe, Thomas	Oglesby
Pettier, Moses	Spring Valley	Rogers, Charles	Duquoin
Phillips, James	Minonk	Rogers, Josiah	Braidwood
Pick, Edward	Centralia	Rogers, Llewellen	Braidwood
Pickett, Robert	Spring Valley	Rollo, George	Mt. Olive
Picton, Joseph	St. David	Rollo, John	Gillespie
Picton, John W	Farmington	Rollo, William	Pana
Pierson, Robert	Harrisburg	Rookin, Thomas	Edwards Station
Pierce, William	Edinburg	Ross, David	Oglesby
Poelker, Joseph	Germantown	Rosbottom, James	Kingston Mines
Pool, Edgar E	Murphysboro	Rowland, Charles, ex	Belleville
Potter, George	Mapleton	Rundle, John C	Colchester
		Rundle, William	Pekin

Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
e. Walton ..	Alton	Staeble, August	Belleville
e. J. J	Stanton	Stanton, William E., ex ..	Colchester
mes (d)	Springfield	Stearns, James	Hallidayboro
Thomas	N. Springfield	Steiner, Benjamin	Sato
rt. Marshall	Mt. Olive	Steel, Alexander	Streator
John M	Hanna City	Steel, Daniel	Collinsville
Henry R., ex	Streator	Steel, James	Spring Valley
ederick	Belleville	Steel, Neal	Centralia
William	Coal City	Stewart, D. G.	Seatonville
Joseph	Bartonville	Stewart, James	Peoria
Richard	Belleville	Strickett, Howard N	Springfield
John	Bartonville	Stockett, Lewis	Collinsville
Arnold, Ernst	East Peoria	Stockett, Thos. R., Jr	St. Louis, Mo.
William J	Glen Carbon	Stockman, W. H.	Duquoin
Castling R	Braceville	Stoneburner, L. L.	Moweaqua
n. Charles W	Lenzburg	Storrie, Archibald	Seatonville
ederick D	Odin	Stratman, Henry, ex. (d) ..	Springfield
Thomas	Paisley	Straley, Peter	Canton
George	St. John	Streibel, George	Edwardsville
Charles	Danville	Strickland, John	Coal City
n. John C	Gillespie	Stricklin, W. H.	Harrisburg
arnes	Peoria	Sutton, Thomas	Millstadt
ryptomery, ex. ..	Coal City	Swanberg, John L.	Danville
M. A.	Galva	Swarthout, J. P.	Peoria
Joseph	Bartonville	Syon, Frank	Niantic
Frank D	Pana	Tailman, John, ex.	Kangley
Charles	Glitchrist	Tatnall, George	Seneca
ohn S	Pana	Taylor, Charles	Edwards
arnes	Streator	Taylor, Daniel	Edwards
John	Edwardsville	Taylor, Henry	Belleville
Samuel	Streator	Taylor, James	Edwards
sa, Thomas	Canton	Taylor, Joseph	Springfield
a, Isaac	Glen Carbon	Taylor, Thomas, ex	O'Fallon
a, David	Spring Valley	Taylor, Thomas, ex	Springfield
a, David	Springfield	Tenney, Charles	Danville
a, George A	Springfield	Thain, James	Riverton
a, George C	Springfield	Thom, Alexander, ex	Coal City
a, William J	Collinsville	Thomas, H.	Westville
a, Thomas	Collinsville	Thomas, J. G.	Spring Valley
a, Thomas	O'Fallon	Thomas, John R.	Ladd
Charles A	Johnson City	Thomas, T. J.	Collinsville
Alexander	Equality	Thomas, Keene	Spaniding
David (d)	Diamond	Thomas, David H.	Murphysboro
John	Diamond	Thomas, Richard	Ridge Prairie
John	Diamond	Thome, Martin, ex	Bartonville
A. H.	Austria	Thompson, John	DeSoto
Edward C	Coal City	Thompson, Robert C.	Murphysboro
James	Wesley City	Thompson, Mark	Sherrard
ret, Nathan	Middle Grove	Thompson, William	Mt Olive
Alexander M	Spring alley	Thorn, James	Duquoin
David P	Sandoval	Thorn, Joseph	Trenton
Pell	Dawson	Thrush, David	Farmington
James	Birkner	Toile, E. B.	Kingston Mines
George A	LaSalle	Tregoning, Walter	Murphysboro
James L	Sandoval	Twomley, Edwin, ex	Coal Valley
James	Mount Olive	Turton, William	Edwardsville
James	East Peoria	Ulrich, Casper	Tilden
James	Riverton	Vallow, Charles	Kinmudy
James	Collinsville	Vandebur, John, ex	Springfield
Henry W	Springfield	Vandever, P. E.	Taylorville
Joseph	Bloomington	Vicary, William	Pottstown
T. J.	Pana	Vicary, George	Pottstown
William	Athens	Vicary, John, ex	Lincoln
William O	Riverton	Vost, John	Springfield
W. H.	Hillaboro	Wagner, I	Mapleton
Thomas	Belleville	Walker, John K	Chester
W. J.	Girard	Wallace, David	Canterville
n. Richard	Virde	Walland, Ed. S., ex	Bartonville
n. Alexander	Peoria	Walmsley, George	East Peoria
erger, Harry C ..	Dunfermline		
n. John	Springfield		
n. Peter H	Springfield		
orth, Andrew P ..	Belleville		
Alfred	Braceville		
Albert H	Glen Carbon		

Certificates of Competency—Concluded.

Name.	Postoffice.	Name.	Postoffice.
Walschtag, Stephen.....	Peoria.....	Williams, Wm. H.....	Edinburg.....
Walsh, Patrick.....	Springfield.....	Williams, W. W.....	Hornaby.....
Walsh, Peter P.....	Pleasant Plains.....	Williams, David Y.....	Herrin.....
Walters, Wm. H.....	Staunton.....	Williamson, Wm.....	Staunton.....
Wanless, Wm. H.....	Riverton.....	Willson, Hiram E.....	Carbondale.....
Wantling, T. J.....	Peoria.....	Wills, Samuel.....	Westville.....
Wantling, Thomas.....	Pottstown.....	Wilson, John.....	Coal City.....
Walters, Thomas W.....	Ladd.....	Wilson, David.....	Murphysboro.....
Ward, Wilson.....	Riverton.....	Wilson, David.....	Spring Valley.....
Warren, James M.....	Herrin.....	Wilson, Hugh.....	Kinmundy.....
Watson, George R.....	Wyoming.....	Wilson, Alexander.....	Carbon Hill.....
Watkins, W. J.....	Danville.....	Wilson, Hiram.....	Carbondale.....
Watts, Thomas J.....	Elmwood.....	Wilson, H. C.....	Pekin.....
Watts, William.....	Elmwood.....	Wilson, John B.....	Sparta.....
Weber, Henry.....	Murphysboro.....	Wilson, John J.....	Wesley City.....
Webster, Richard.....	Collinsville.....	Wilson, Robert.....	Roanoke.....
Weeks, Thomas.....	Streator.....	Wilson, William.....	Middle Grove.....
Weisenborn, F. E.....	Mt. Olive.....	Wilson, Thomas.....	Norris.....
Wenneborg, Otto.....	Springfield.....	Wilson, Wm.....	Sparta.....
Westwater, David.....	Pekin.....	Wilson, W. R.....	Reed City.....
Westwood, Albert.....	Belleville.....	Winneberg, W.....	Springfield.....
Westwood, John.....	Streator.....	Winning, James.....	Cartersville.....
Westwood, Thomas.....	Belleville.....	Winning, Robert.....	Cartersville.....
Wheatcraft, James.....	Elmwood.....	Winterbottom, John.....	Murphysboro.....
Whennen, Charles.....	Oglesby.....	Winters, Samuel P.....	Bartonville.....
Whitaker, John.....	Collinsville.....	Wittman, Daniel.....	New Baden.....
Whitaker, Wm. J.....	Collinsville.....	Walschlag, Stephen, ex.....	Peoria.....
White, John R.....	Belleville.....	Wood, Henry.....	Streator.....
White, Michael.....	Virdeu.....	Woods, William, ex.....	Morris.....
White, Owen.....	Seatonville.....	Worthington, Willard.....	Duquoin.....
Whitehead, Joseph.....	Farmington.....	Wright, John.....	Belleville.....
Wild, James.....	Murphysboro.....	Wright, J. W.....	Kingston Miss.
Wiley, Robertson.....	St. David.....		
Wilkinson, Frank.....	Westville.....	Yates, John.....	Belleville.....
Wilkinson, T. H.....	Diamond.....	Young, Hiram.....	Girard.....
Williams, James.....	Murphysboro.....	Young, Hugh G.....	Braidwood.....
Williams, Jeff.....	Farmington.....		
Williams, John.....	Riverton.....	Zink, Peter A.....	Belleville.....
Williams, Louis.....	Belleville.....	Zoller, Robert H.....	Braidwood.....
Williams, Robert H.....	Girard.....		
Williams, Walter.....	Duquoin.....		

MINE MANAGERS HOLDING CERTIFICATES OF SERVICE.

Name.	Postoffice.	Name.	Postoffice.
Adams, Charles T.....	Rosboro.....	Collier, Frank J.....	Bartonville.....
Alsopp, William H.....	New Castle.....	Cooper, Charles.....	Nilwood.....
Andreas, August.....	Belleville.....	Coster, George.....	Grape Creek.....
Angel, Hiram.....	Glenn.....	Crawson, Elhu.....	O'Fallon.....
Atkinson, Edward.....	Streator.....	Cummings, William.....	Rushville.....
Axford, Thomas.....	Petersburg.....	Cusack, M.....	Edwards.....
Bailey, Robert.....	Sunfield.....	Dale, John.....	Fredonia.....
Bangart, Henry (d).....	Lincoln.....	Davenport, John.....	Harrisburg.....
Bartlett, Thomas.....	Cuba.....	Davis, Caleb.....	Collinsville.....
Barwell, John.....	Cutler.....	Davison, Matthew.....	DuQuoin.....
Bates, W. H.....	Winchester.....	Deans, Henry.....	Percy.....
Betz, Charles C.....	Duquoin.....	Donaty, James.....	Cartersville.....
Bolander, John.....	Pekin.....	Duffner, J. W.....	Belleville.....
Bracken, James A.....	Greenview.....		
Brown, Jabez.....	Cutler.....	Enstlinger, Emanuel E.....	Crab Orchard.....
Brown, Thomas M.....	Pinckneyville.....	Entwhistle, Robert.....	Colchester.....
Bunting, J. H.....	Grape Creek.....	Erwin, William.....	West Belleville.....
Bushong, Andrew M.....	Danville.....		
Caldwell, James.....	Elmwood.....	Fagan, Patrick.....	Decatur.....
Cameron, Duncan S.....	Sorento.....	Fletcher, Adam.....	Ladd.....
Cape, Thomas.....	Fairview.....	Forsythe, Peter.....	Centerville.....
Chere, George.....	Pleasant Plains.....	Forsythe, Thomas.....	Centerville.....
Christie, David.....	Murphysboro.....	Fowler, Henry.....	Millersburg.....

Certificate of Service—Concluded.

Name.	Postoffice.	Name.	Postoffice.
<i>Bernard</i>	Lincoln.....	McDonald, Daniel.....	Menard.....
<i>Edward</i>	Niantic.....	McDowell, James A.....	Grape Creek.....
<i>John</i>	Peoria.....	McKernan, James.....	Collinsville.....
<i>Wm</i>	Cuba.....	<i>Neal, William</i>	Murphysboro.....
<i>George</i>	Springfield.....	<i>Nicholson, William</i>	Cuba.....
<i>Henry</i>	Orchard Mines.....	Noyd, Lewis.....	Galva.....
<i>David</i>	Pekin.....	<i>Oexner, Wendelin</i>	West Belleville...
<i>in (d)</i>	Roanoke.....	<i>Parkin, William</i>	Sweetwater.....
<i>Bert</i>	Springfield.....	<i>Patterson, J. C.</i>	Assumption.....
<i>Ed, Robert</i>	Duquoin.....	<i>Peart, John</i>	Braidwood.....
<i>Ester</i>	Collinsville.....	<i>Pfander, Fred</i>	Peoria.....
<i>William A</i>	Colona.....	<i>Pickett, Robert</i>	Canton.....
<i>Robert</i>	Cable.....	<i>Pool, Edgar E.</i>	Murphysboro.....
<i>Daniel</i>	Lenzburg.....	<i>Price, David</i>	Fairbury.....
<i>Ernest</i>	Streator.....	<i>Price, James L.</i>	Danville.....
<i>John L.</i>	LaSalle.....	<i>Pullen, Charles</i>	Sorento.....
<i>William</i>	Streator.....	<i>Radford, William</i>	Cuba.....
<i>res</i>	Braidwood.....	<i>Randle, Jessie</i>	Birkner.....
<i>James</i>	Tallula.....	<i>Reynolds, William</i>	East Peoria.....
<i>yer, Julius</i>	Golden Eagle.....	<i>Royster, Moses L.</i>	Peoria.....
<i>Eugene</i>	Bartonville.....	<i>Rusche, Christian (d)</i>	East Peoria.....
<i>, Wm. M.</i>	Duquoin.....	<i>Ryan, James</i>	Springfield.....
<i>David</i>	Marissa.....	<i>Schmidt, Frank P.</i>	Limestone.....
<i>George, Jr.</i>	Bartonville.....	<i>Shaw, Nathan</i>	Kramm.....
<i>Andrew</i>	Wenona.....	<i>Smith, David P.</i>	Dawson.....
<i>Eugene</i>	Ridge Prairie.....	<i>Smith, Felix</i>	Breese.....
<i>Bernard</i>	Kewanee.....	<i>Solomon, Robert</i>	Springfield.....
<i>agen, Henry</i>	Belleville.....	<i>Spencer, George</i>	Duquoin.....
<i>Anthony F.</i>	Sato.....	<i>Stanway, George</i>	Blair.....
<i>tus, Philip H.</i>	Tamaroa.....	<i>Stark, Andrew</i>	Galva.....
<i>Charles</i>	Belleville.....	<i>Stewart, David J.</i>	Seatonville.....
<i>losea W.</i>	Sheffield.....	<i>Stuhlsatz, Michael</i>	Kewanee.....
<i>ark, Jr.</i>	Sato.....	<i>Sutton, Thomas</i>	Millstadt.....
<i>Robert</i>	Belleville.....	<i>Swan, Charles</i>	Oakwood.....
<i>Patrick</i>	Breeds.....	<i>Swisher, James E.</i>	St. David.....
<i>Peter</i>	Williamsville.....	<i>Teifer, Alexander W.</i>	Morris.....
<i>, C. W.</i>	Augusta.....	<i>Terrill, Thomas</i>	Colchester.....
<i>Lewis</i>	Belleville.....	<i>Thompson, John</i>	DeSoto.....
<i>Nicholas</i>	Lebanon.....	<i>Thornton, James</i>	Duquoin.....
<i>William</i>	Lenzburg.....	<i>Waugh, George, Sr.</i>	Peoria.....
<i>hn</i>	Norris.....	<i>Westwood, Thomas</i>	Belleville.....
<i>Thomas</i>	Collinsville.....	<i>Wilkin, John B.</i>	Petersburg.....
<i>Thomas</i>	Percy.....	<i>Williams, John</i>	Sato.....
<i>n, Edward</i>	Carbon Hill.....	<i>Williams, John T.</i>	Coalville.....
<i>remiah</i>	Danville.....	<i>Williams, Walter</i>	Duquoin.....
<i>Robert</i>	Virginia.....	<i>Wilms, William</i>	Springfield.....
<i>John</i>	Braidwood.....		
<i>, James</i>	Kangley.....		

MANAGERS HOLDING CERTIFICATES OF COMPETENCY AT MINES
EMPLOYING NOT TO EXCEED TEN MEN.

Name.	Postoffice.	Name.	Postoffice.
<i>M</i>	Laura.....	Ahlgren, Emil.....	Kewanee.....
<i>John</i>	Denmark.....	Alexander, Orie A.....	Huntsville.....
<i>William R.</i>	Danville.....	Allen, James T.....	Pleasant View.....
<i>t. M.</i>	Danville.....	Allen, W. P.....	Spillerton.....
	Geneseo.....	Allison, John.....	Loding.....

Mine Managers (Ten Men), Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Allison, Elmer	Danville	Boostrom, Ben B.	Wataga
Anderson, Alexander	Sato	Bonnett, A. H.	Pilot
Anderson, Le. A.	Streator	Bowman, G. W.	Yates City
Anderson, N. C.	Ottawa	Bowman, T. L.	Industry
Anderson, Josh.	Equality	Boyer, A. P.	Etherly
Anderson, M. H.	Knoxville	Brackhouse, Fred	Chapin
Anna, Charles	Wataga	Braunaman, F. L.	Danville
Argus, Leonard	Belleville	Brandt, Jean	Georgetown
Arrandale, Jno. W.	Streator	Brandt, Henry C.	Petersburg
Ascraft, J. W.	Mayton	Brandt, William	Mineral
Anton, Emanuel	Danville	Brannon, James	Grape Creek
Atkinson, Amos	Colchester	Brennan, George	Cascyville
Atkinson, M.	Kewanee	Brinley, Ross	Danville
Atkinson, Chas. W.	Colchester	Broderick, Andrew	Danville
Auglin, John	Shelbyville	Brophy, M.	Shelbyville
Avery, Geo. W.	Industry	Brown, John	Ottawa
Axley, Edward	Roodhouse	Brown, S. C.	Lewistown
		Brooker, Fred	Lowell
Backling, William	East Peoria	Bryan, John	Grape Creek
Backofen, Jacob	Littleton	Bryant, S. C.	Grape Creek
Bailey, Oliver	Carbondale	Bryner, Leonidos	Roseville
Baird, W. C.	Carbondale	Buchanan, H. M.	Streator
Baird, Oswald	Colchester	Bullock, Joseph	Collinsville
Baker, L. C.	Oakwood	Bullock, Robt.	Duquoin
Baker, William H.	Industry	Bunt, Joseph	Colchester
Baker, Joseph	Ottawa	Bunting, C. J.	Danville
Baker, F. W.	Fairbury	Burdick, Frank	Industry
Baker, Wm. J.	St. David	Burk, W. W.	Conant
Bales, Joseph L.	Danville	Burney, Ralph	Colchester
Balmar, Jno. D.	Bartonville	Butter, William	Stonefort
Ball, Samuel	North Alton	Byrnes, John	Brighton
Banney, H. E.	Abingdon		
Barber, William	Colchester	Cagle, William	Frederick
Bargreen, Charles	Streator	Cagle, John	Littleton
Barnett, W. M.	Palzo	Cagdoll, A. C.	Stonefort
Barter, Charles	Bryant	Caldwell, Thomas	Avon
Bass, Oscar J.	Wyoming	Caney, Robt. P.	Lombardville
Bates, Geo. H.	Kewanee	Campbell, Ed.	White Hall
Bates, Watson	Rushville	Campbell, Andrew F.	Roseville
Bath, Isaac	Lewistown	Campbell, Francis A.	Viola
Bath, Abraham	St. Davis	Campbell, W. R.	Vergennes
Baugh, William	Henry	Cameron, Henry	Viola
Beatty, John T.	Mascoutah	Carlson, Alfred	Sunny Hill
Beatty, John T.	Mascoutah	Carlson, Andrew F.	Kewanee
Becroft, Leonard	Atkinson	Carroll, C. E.	Duquoin
Hectler, John	Pekin	Carroll, Thos. J.	Bunker Hill
Beddow, Benj.	Danville	Carrel, A. J.	Duquoin
Beers, M. A.	Cable	Carter, Elmer	Camden
Beever, J. H.	Farmington	Carter, Joe	Kewanee
Begum, Geo. E.	Ottawa	Carter, F. R.	Danville
Bell, James	Morris	Carter, Wm. B.	Danville
Bell, Charles	Pleasant View	Carson, Charles H.	Flatt
Heltz, Lindolph	Carterville	Carrison, George	Colchester
Helz, George	Carterville	Casteter, John	Streator
Hennet, Fred	Chillicothe	Casteter, William	Streator
Benson, William	Winchester	Catt, A. G.	Newton
Berry, John	Macomb	Catton, John	West Jersey
Berry, Charles	Monica	Catton, C. F.	West Jersey
Berry, W. J.	Macomb	Chadwick, E.	Oak Hill
Berry, R. M.	Cottage Grove	Charlinsworth, Amos C.	Fosterburg
Berry, Wm.	Monica	Charlson, Chas.	Wyoming
Beuer, Jacob W.	Castletown	Charnok, Wm.	Victoria
Beuer, Joseph	Castletown	Chesney, Alonzo T.	Ava
Bexton, William G.	Colchester	Chilton, Richard	Kewanee
Biggs, Henry	Ledford	Chipping, W.	Canton
Bird, Daniel	Roseville	Chorlton, James	French Village
Birdois, D.	Peoria	Christman, Charles W.	Sparland
Birdois, John	Peoria	Clark, James A.	Equality
Blackburn, Kelly	Johnson City	Clark J. H.	Brimfield
Blagden, Richard	Leaman	Clarkson, William H.	Edwards
Blakey, Cuthbert	Wyoming	Clarkson, Lorenzo	Kickapoo
Blessing, George	East Peoria	Chifford, Geo. L.	Onedia
Blockley, Rufus	Equality	Cody, Richard	Peoria
Blotevagal, William	Worden	Coespire, G.	Peoria
Blue, J. W.	Grape Creek	Colburn, John H.	Vanderburgh
Blue, Ed.	Grape Creek	Collins, Thomas	Collins
Bode, W. H. H.	Chesterfield	Collins, A. Y.	Greenfield
Boden, Ed.	Pre-emption	Collins, W. N.	Ava
Boldwyn, T. W.	Vergennes		

Managers (Ten Men), Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Robert	Brimfield	Durham, Simon	Canton
George	Duncan	Dunston, Charles	Atcher
Wm. M.	Wyoming		
Rich.	Oakwood	Ebel, August	Bellville
Geo. K.	Grape Creek	Eccles, Frank	North Alton
H.	Etherly	Edison, James	Ottawa
Is B.	Alexis	Edwall, C. W.	Galva
Robert W.	Etherly	Edwards, Thomas	Streator
J. F.	Peoria	Edwards, T. J.	Crab Orchard
W.	Petersburg	Edwards, Geo.	Huntsville
Walter	Pinkneyville	Edward, David L.	Coal Valley
He	Kewanee	Edwards, A. G.	New Burnside
George	Wyoming	Edwards, John	Danville
Is H.	Ava	Elmwood, A. B.	Kewanee
ph.	Colchester	Elker, Geo. L.	Knoxville
	Morris	Elliott, James	Caseyville
	Chillicothe	Ellis, Ross M.	Danville
	Stonefort	Emerick, Alonzo	Farmington
red W.	Ava	Enns, James	Peoria
Valter	Pleasant View	Ensminger, E. E.	Crab Orchard
	Pleasant View	Entwistle, W.	Colchester
ines W.	Etherly	Erhardt, Anton	Bellville
am, Lewis	Union	Erkson, August	Galva
am, R. A.	Danville	Ernst, Frank	St. Johns
s. Wm. M.	Cutler	Espley, J. T.	Morris
nford	Rushville	Essex, G. W.	Soperville
H.	Rockbridge	Evans, Ed W.	Streator
	Princeville	Evans, Lewis	Kangley
		Evans, W. L.	Cottage Grove
		Eynman, Albert	Lewistown
oseph	Danville		
bes	St. David	Fairley, John	Cambridge
um	Yates City	Farrell, Hugh	Monica
K.	Danville	Faust, Jacob	Plockneyville
N.	Blandinsville	Fenwick, Geo. A.	Danville
Robert T.	Table Grove	Filker, George	Farmington
ries	Abingdon	Fink, Frank	Truro
James	Streator	Fish, William	Appleton
	Fayette	Fisher, W.	Murrayville
s. H.	Salisbury	Fisher, Alcide	Brighton
Thomas	Griffin	Flemming, Thomas	Morris
Bert	Colchester	Flynn, William	Briar Bluff
Augustus	Yates City	Foley, William H.	Mapleton
C.	Deer Park Glen	Forester, W. M.	Equality
raham L.	Middletown	Foster, Geo. W.	Colchester
amille	Orchard Mines	Foster, Thurman	Carbondale
Thomas	Avon	Fox, Thomas	Lewistown
G. F.	Equality	Francis, Wm. G.	Streator
J. I.	Equality	Francis, C. W.	Catin
ries	Victoria	Fredrickson, Andrew	Danville
vid C.	Wyoming	French, Strawther	Bradford
red	Petersburg	Frisby, E. O.	Spartan
Joseph	Morris	Frisby, W. E.	Spartan
Wm. W.	Colchester	Frost, Michael	Danville
Phillip	Freeburg	Fry, John	Ray
Is	New Burnside	Fuller, James K.	Modena
	Princeville		
	Kewanee	Gaddis, Ed	Hudgens
Jan. R.	Pre-emption	Gallagher, W. F.	Mode
	Lafayette	Gallaith, Zacharias	Morris
Wm. F.	East Peoria	Gainey, Thomas	Carbon Cliff
er	Wataga	Garland, Samuel	Kewanee
is	Green River	Gary, George	Ray
	Trum	Geister, Henry	Brighton
P.	Pre-emption	Gedelman, E. F.	Freeburg
len B.	Campbell Hill	Gensel, Joseph	Lewistown
Chas	Danville	Giebelhausen, Gus E.	Peoria
Edward	St. David	Gergens, Martin	Plockneyville
John A.	Canton	Gerlach, Geo. F.	Sparta
L.	Vandercook	Gilbride, Frank	Morris
Frederic	Danville	Gilderoy, W. W.	Monmouth
F.	Knoxville	Gillette, Charles	Elmira
rt G.	Kewanee	Gillis, Neal M.	Winchester
	Tennessee	Gillis, Fred F.	Danville
Is	Sheffield		
ey	Ocala		
	Brimfield		

Mine Managers (Ten Men), Certificates of Competency—Continued

Name.	Postoffice.	Name.	Postoffice.
Gilligan, Jackson	Industry	Hinderer, Frank	Frederick
Glenn, Jethn	Briar Bluff	Hoar, William	Colchester
Goble, Frank M.	Industry	Hodge, S. M.	Danville
Golden, James	Kewanee	Hodge, John W.	Rushville
Golden, Rk hard	Kewanee	Hodge, Benjamin A.	Danville
Goode, Joseph	Lombardville	Hodgett, Absalom	Kewanee
Goudy, W. S.	Brimfield	Hodgson, Wm.	Colchester
Grant, August	Kewanee	Hogercamp, Walter	Pontiac
Greear, William	Coal Valley	Hohimer, Harry	Petersburg
Green, Samuel J.	Colchester	Holley, Wm. G.	Wyoming
Green, Clarence	Spartan	Horrocks, Benj.	Henry
Green, Milton	Kelthaburg	Houseman, Fred	Footsburg
Grice, Albert	Kewanee	Howard, Charles	Modena
Griffiths, Edward	Roodhouse	Howe, Wm.	Streator
Griffiths, Thomas W.	White Hall	Huber, W. H.	Lewistown
Griffiths, D.	Caseyville	Hughes, John	Petersburg
Griffiths, James	Grape Creek	Hudson, Samuel	White Hall
Griffiths, Joseph F.	Moline	Humes, Michael	Colchester
Griggs, Allison	Brimfield	Hurst, John	Belleville
Grim, David, Jr.	Victoria	Hurst, Lot	Bartonville
Grossman, Louis	Smithton	Isackson, Martin	Wataga
Grosweiler, Joseph, Jr.	Pekin	Isaacson, P. O.	Wataga
Groth, John	Carbon Cliff	Ingram, Robert H.	Spartan
Groy, Max	Kewanee	Ingram, J. S.	Harrisburg
Guckert, P. P.	Hampton	Irwin, James	Green River
Gunnelt, A. J.	Fairview	Irwin, Fred	Smithton
Gurten, Louis	Pinckneyville	Ivana, W. A.	Cottage Grove
Guy, Thomas	Colchester		
Halding, James A.	Wyoming	Jacobs, John	Wataga
Hall, John	Colchester	Jacobs, Claude	Danville
Hall, John	Grape Creek	Jacquot, Augustare	Danville
Hall, Charles	Dunfermline	Jack, John	Marion
Hall, Geo. W.	Newton	Jamieson, E. J.	Loding
Hamilton, John W.	Frederick	Jamieson, Guy	Loding
Hamilton, John	Cuba	Jarrell, Miles	Cottage Grove
Hamilton, Gail G.	Frederick	Jayne, Richard	Cuba
Hammett, Otho J.	Chillicothe	Jenkins, D. A.	Danville
Handly, John L.	Coal Valley	Jenner, A. T.	Pinckneyville
Hannmann, Wm.	Okawville	Johnson, C. E.	Canton
Harbaugh, Geo. W.	Chesterfield	Johnson, Cornelius F.	Middletown
Harnisch, Ernest	Brighton	Johnson, J.	Farmington
Harrington, Frank	Farmington	Johnson, Benjamin	Smithboro
Harrington, D.	Danville	Johnson, J. E.	Dunfermline
Harris, A. J.	Tilton	Jones, W. L.	Bradford
Harris, Oliver	Canton	Jones, C. S.	Sato
Harris, Hardy	Catlin	Jones, W. W.	Bradford
Harrman, John	Peoria	Jones, A. J.	Peoria
Harvey, John	Murphyboro	Jones, A. H.	Colchester
Haskins, Alfred	Grape Creek	Jones, James H.	Streator
Havens, Bert	Truro	Jones, John L.	Peoria
Haves, C. G.	Kewanee	Jones, Jackson	Winchester
Heathcock, George	Princeton	Jones, W. H.	Catlin
Heather, James	Morris	Jones, Wm. J.	Kewanee
Heintz, A. F.	Kickapoo	Jones, Evan A.	Catlin
Hendee, Isaac	Bernadotte	Jones, Arthur	Viola
Henry, Samuel	Danville	Jones, Thomas	Peoria
Henson, John F.	Denmark	Jones, Andrew	Winchester
Hennemann, Charles	Belleville	Jones, Conrad	Peoria
Herman, John	Oraville	Jordan, Will.	St. David
Herman, John	Kewanee	Jordan, John L.	Trivoli
Herkstrom, E.	Victoria	Jordan, K. S.	Newton
Herrington, Thomas	Princeton	Joubert, George	Grayville
Herseman, Herman	East Peoria	Jourdan, Wm. L.	Smithton
Hewitt, William B.	Chenoa		
Hews, W. B.	Canton	Kabel, Herman	Moro
Hibberd, Lewis W.	Peoria	Kavanaugh, J. A.	Colchester
Hickson, David	Ottawa	Kay, James	Atkinson
Hicks, Wm. E.	Crab Orchard	Kay, William H.	Morris
Hickman, Willis	Frederick	Kay, Bert	Atkinson
Higbee, Lawrence	Princeville	Kay, Robert	Briar Bluff
Hissong, Charles	Tilden	Kay, Wm. G.	Atkinson
Hibbard, Geo. A.	Limestone	Kelly, Thomas	Grape Creek
Hillard, E.	Colchester	Kear, George G.	Springfield
Hillier, Walter T.	Carbondale	Kearney, John	Shelbyville
Hind, Robert	Salisbury	Keel, W. L.	Shelbyville

Managers (Ten Men), Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Henry W	Friendville	Martin, Geo	Kewanee
Am C	Kewanee	Marriage, Joseph	Grape Creek
ron L	Rushville	Marxer, Joseph	Milstadt
m T	Briar Bluff	Marley, Richard	Atkinson
ph	Roseville	Marshall, G A	Cuba
ry R	Shawneetown	Marshall, J C	Caseyville
Paris	Victoria	Mason, Frank A	Carbondale
ur	New Burnside	Massey, Jesse	Streator
William	Pekin	Matsinger, Theodore	Crab Orchard
s, Emil	Campbell Hill	Mauk, Joseph	Danville
in	Wyoming	Mauk, L F	Danville
Fred	Equality	Medearis, Jas	Henry
A	Streator	Meiker, B F	Danville
	Colchester	Meln, Leo	Kewanee
	Belleville	Meln, R	Kewanee
	Roodhouse	Mehegan, John	Petersburg
	Rapid City	Mellier, Louis	Brighton
	North Alton	Memmer, L	Canton
		Merry, Geo	St. David
vid	Monica	Merron, G W	Crab Orchard
in	Kewanee	Merrill, R M	Campbell Hill
ustin H	Keansburg	Mewher, W T	LaHarve
ss	Peoria	Mertz, Wm M	Ottawa
ard	Colchester	Mills, Henry	New Douglas
k	Pinckneyville	Milner, George A	Danville
hn	Grape Creek	Miller, Silas	Grape Creek
ss	Youngstown	Miller, Eliza	Grape Creek
	Alexis	Miller, Smith	Mapleton
Charles W	Cable	Miller, L S	Grape Creek
O W	Equality	Miller, George A	Danville
Charles W	Galesburg	Miller, C G	Youngstown
urles E	Cambridge	Mitchell, Robert T	Prairie town
mons	Cartersville	Motaker, John	Danville
B	Youngstown	Molloy, John	North Alton
Fred	Cable	Monroe, Archie	Carriers Mills
	Kewanee	Montooth, Chas	Bradford
	Canton	Moorman, Mark	Illinois City
ust	Danville	Morrison, Alva	Modena
P	Wataga	Morris, John K	Orion
er, J. R	Grape Creek	Moore, Nanly	Saline Mines
rgg	Canton	Moore, W F	Victoria
o T	Roseville	Moore, Sam J	Cottage Grove
	Roodhouse	Moran, Michael P	Sheffield
Joseph	Roodhouse	Morrison, D D	Danville
, Edw	Brimfield	Morris, Geo J	Millersburg
iba	Danville	Morgan, Charles	Oneida
y P	Danville	Mordue, Geo	Colchester
	Danville	Mosher, Charles	Etherly
David L	Lewistown	Moss, Oliver	Vergeona
E	Loding	Morton, T J	Danville
	Chesterfield	Mowbray, Jno	Atkinson
ss	Galva	Muir, George	Victoria
mucl	Lewistown	Munth, Wm	Streator
Edward J	Atkinson	Mulvany, Chris	Farmington
ewis	Fosterburg	Murphy, Fred	Belleville
has, H	Brighton	Murphy, Led	Monmouth
John H	Brighton	Murphy, Chas H	Canton
zwell	Bunker Hill	Murchison, Kenneth	Kewanee
	Coal Valley	Murray, Samuel	Monmouth
		Mustard, Elijah	Canton
		Muzzy, William H	Peoria
William	Fairview	Myers, W H	Carbondale
W	Ray	Myers, Geo	Ottawa
erry	Duquoin	Myers, Perry	Bethalto
James W	Petersburg	Myers, Chas	LaHarve
Richard	Rock Island	McAnnally, Jno	North Alton
William, Sr	Colchester	McCartney, C T	Alexis
W	Laoc	McDaniel, Chas C	Wyoming
3	Laoc	McClure, Marion	Colchester
W	Farmington	McCulloogh, Jas	Ottawa
ed	Peoria	McDonald, Samuel	Moro
in H	Canton	McElwee, Charles P	Winchester
rick	Peoria	McGovern, T. B	Oneida
William Jr	Colchester	McGovern, S	Oneida
d A	Canton	McGuire, John	Alsey
		McGuire, Patrick	Winchester
		McIntire, Geo	Industry

Mine Managers (Ten Men), Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
McKahan, Samuel R	Alexis	Porritt, Thomas	Carterville
McKane, R	Galva	Portwood, James	Lewistown
McKeen, William H.	Danville	Potter, L.	Mapletown
McKinney, Charles	Cottage Grove	Powers, James.	New Burnside
McLain, William H	Equality	Presson, J. A.	Carbondale
McLaughlin, Joseph.	R. F. D., No. 5	Price, John	Wyoming
McMichael, T. M.	New Burnside	Proctor, Christopher.	Elmwood
McMillin, William J.	Streator	Pugh, Geo. J.	Ava
McNaught, Henry	Williamsville	Putnam, Jonah S.	Danville
McNell, William.	Griffin	Pyle, Joseph F.	Kewanee
Nee, John J.	Colchester	Raddlebeck, Joseph	Brimfield
Nelson, James	Knoxville	Raffee, Robert	Farmington
Nelson, Louis.	Streator	Rains, Charles.	Oraville
Nelson, Nels.	Ottawa	Rand, John.	Bryant
Nelson, John S.	Morris	Rands, Thomas	Chesterfield
Nelson, Chris.	Chandlerville	Ratcliffe, Arthur	Neponset
Nenneker, Andy	Bushnell	Ratley, Charles	Cypress Junction
Nenneker, Fred	Bushnell	Ray, A. B.	Catlin
Neville, Wm.	Catlin	Ratley, James E.	Equality
Newell, J.	Spartanburg	Ray, William	Danville
Newton, F. B.	Modena	Rayborn, George	Winchester
Newton, Geo. H.	Toulon	Reed, William	Soperville
Newton, Ben F.	Bradford	Kennick, William C.	Modena
Nibbelin, John.	Elwood	Reed, W. B.	Wilman
Nightawtonger, Asa	Spartanburg	Reed, John.	Herrin
Nodeon, E. W.	Wataga	Reib, Conrad	Bellefonte
Norris, Floyd	Duquoin	Reid, J. Thomas	Salline Mines
Nozley, Alfred	Golden.	Reinhardt, Frank	Wataga
Nyde, John K.	Galva	Reiff, Jacob	Kewanee
O'Daniel, Arthur.	Danville	Reeves, John	Hudgens
Oldham, Ralph	Colchester	Revis, J. H.	Roodhouse
Odum, D. B.	Carriers Mills	Reynolds, James	Colchester
Owens, Orby G.	Stonefort	Renshaw, John	Eden
Pahlman, H.	Bluffs	Reese Lemuel	Streator
Parker, William.	Milan	Rhoades, Benjamin	Shelbyville
Parker, W. G.	Winchester	Ribley, R.	Cuba
Parle, Sylvester	Danville	Richardson, John	Shelbyville
Parr, Joseph	Princeville	Richardson, William	Moro
Parthan, M.	Sato	Richards, Thomas	Ottawa
Paul, John	Sheffield	Rich, John C.	Carbondale
Payne, Charles C.	St. John	Richard, George	French Village
Pearson, William M.	Astoria	Riegels, Adolph	Golden Eagle
Pearson, John	Colchester	Riley, J. K.	Breeds
Peck, E. E.	Canton	Riley, Michael	Braidwood
Pendergast, John.	Soperville	Riley, Cyrus W.	Mineral
Penman, James.	Streator	Riley, Elerof	Atkinson
Penman, William.	Preemption	Ringer, Benjamin	Morris
Penn, George	Belleville	Robbins, J. W.	Glasford
Penn, Henry	Brimfield	Robinson, Benjamin	Wyoming
Perkins, John E.	Osceola	Robinson, William	Colchester
Perkins, J. B.	Ray	Robinson, J. M.	Elmira
Perdue, Joseph	Hudgens	Robinson, John W.	Wyoming
Perry, D. E.	Colchester	Robinson, Robert	Wyoming
Peters, Benard	Swansea	Robinson, Wm. H.	Macomb
Peters, M.	Streator	Roberts, Evan D.	Streator
Peterson, August	Soperville	Roberts, David	Orchard Mines
Petrie, George	Osceola Twp.	Roberts, Henry F.	Modena
Phillips, Sebirt	Pekin	Roddie, Charles	Ipava
Preston, Bryan B.	Carbondale	Roddie, Wm.	Ipava
Presswood, C.	Cable	Rodell, Frank	Wataga
Price, Benjamin	Pinckneyville	Rogers, David	Kickapoo
Pichon, Joseph	Kewanee	Rohr, Joseph C.	Alexis
Pickett, George	Danville	Roland, Adolph	Grape Creek
Pistor, William.	Millstadt	Ronk, G. H.	Canton
Polonius, George	Colchester	Ronk, John	Brimfield
Politt, James H.	Canton	Rosa, V. L.	Pleasant View
Poole, Plummer	Danville	Rose, James	Equality
Poore, William	Kickapoo	Royse, Sylvester	South Danville
Posten, M. W.	Briar Bluff	Ryan, Phillip	Ashland
Porter, William H.	Macomb	Russell, John R.	Danville
		Sackville, James	Coal Valley
		Sample, John	Laura
		Saunders, W. G.	Monica

3 Managers (Ten Men), Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
ers, David T.	Peoria	Stroud, William	Marion
, John J.	Peoria	Suggett, William	Breeda
Charles A.	Canton	Summerson, John	Coal Valley
Jesse	Modena	Summerson, Robt.	Coal Valley
n, M. C.	Canton	Swanson, Axel	Cable
er, William	Danville	Swanson, Otto	Cable
dt, August	Millstadt	Swanson, Andrew	Colchester
dt, George	Millstadt	Swenson, John	Danville
dgall, Jon L.	Murphysboro	Sydall, Peter	North Alton
e, William	Kickapoo	Swafford, William	Duquoin
der, Fred C.	Coal Valley	Swan, Chas W.	Marion
z, Fred	Braceville	Switzer, James	Astoria
John	Modena	Swisher, Trumont	Danville
Frank	Danville		
k, J.	Monmouth		
Henry	Peoria	Tarpley, W. S.	Marion
it, Frank	Belleville	Tanner, Anderson	Absher
ar, Michael	Ava	Tattermoll, George	Seneca
, Solomon	Summum	Taylor, James	Belleville
John G.	Danville	Taylor, Robert	Princeville
ne, Abe	Macomb	Taylor, Francis	Blandinsville
tt, James	E. Peoria	Taylor, Jno. S.	Neponset
ler, R. D.	Pekin	Taylor, J. W.	New Burnside
n, W. J.	Cottage Grove	Teague, James	Winchester
erd Wm A.	Catlin	Teel, James	Industry
William	Chandlerville	Teller, John K.	Morris
S	Carbon Cliff	Telfer, John W.	Morris
ona, Alfred H.	Roodhouse	Tendale, Henry	Morris
s, William H.	Monica	Thompson, Jacob	Grape Creek
t, John	Alexis	Thompson, James P.	Ray
on, Charles	Wataga	Thompson, Joseph	Etherly
on, Newton M.	Ray	Thompson, Joe	Grape Creek
on, Joseph	Youngstown	Thomas, William	Streator
r, H. P.	Stonefort	Thomas, James	Danville
st, James	Centre Station	Thomas, George	Sheffield
Miles B.	Etherly	Thomas, Samuel	Catlin
John	Atkinson	Thurston, John H.	Wyoming
A. J.	Saline Mines	Tilley, Wm.	Duquoin
Geo. W.	Colchester	Todd, Ralph	Kewanee
James	Princeton	Todd, Geo. B.	Catlin
B. F.	Modena	Todd, John	Victoria
John	Frederick	Toney, A.	Grape Creek
Thomas B.	Streator	Tompkins, C. N.	Mineral
Thomas	Ottawa	Tompkins, Harvey	St. David
Charles	Spartan	Towner, L. H.	Bluff City
John	Danville	Treasure, William	Essex
Leonard	Atkinson	Tucker, Charles	Mineral
erger, John	Victoria	Tucker, Edward	East Peoria
ly, Joseph	Streator	Tucker, P. F.	Whitehall
ler, Charles	Danville	Tulk, M. B.	Colchester
t, Charles	Crab Orchard	Tully, P. F.	Brimfield
t, Edgar	Astoria	Turner, John	Lewistown
er, Charles	Victoria	Turner, George	Lewistown
, Henry	Herrin	Twiney, William A.	Shelbyville
ler, Elmer	Carbondale	Tygett, John	Carbondale
rman, Ed.	Brighton	Tyla, H.	Wataga
W. H.	Equality	Tyler, Church	St. David
lr, James A.	Macomb	Tyson, Thomas	Marion
na, Isaac	Cuba		
, Joseph	Pekin	Underwood, J. H.	Equality
is, John	Cuba		
William	Danville		
er, Jacob F.	Arenzville	Vandyke, William	Canton
Isaac	Colchester	Varner, Wilson	Marietta
William	Colchester	Vaughn, William	Jubilee
Charles	Colchester	Vaughn, Elijah	Jubilee
Thomas	Carbon Cliff	Vaughn, John H.	Shawneetown
, Harry	Toulon	Veazey, George	Ottawa
, J. E.	Canton	Vickery, Henry	Pottstown
r, James H.	Norris	Vogt, Leon	Shawneetown
, Charles	Roseville		
, William	Shelbyville		
nger, Conrad	French Village		
lin, Thomas A.	Marion	Wages, E.	Canton
n, O. F.	Rushville	Waine, James	Atkinson
, Ralph	Pleasant View	Wainwright, Arthur	Sweetwater
J. P.	Shawneetown	Wahlburg, Albert	Knoxville

Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
McKeown, Frank	Decatur	Postle, John	Braceville
McKernan, Jas	Collinsville	Powell, Albert E	Belleville
McLearn, Archibald	Collinsville	Powell, Evan	Murphysboro
McLaughlin, Wm	Auburn	Powell, David, ex	Braceville
McLaughlin, Wm	Ava	Powell, J. E	Sato
McLaughlin, John	Girard	Powell, Thomas H	Belleville
McLean, Robert	Girard	Powell, Samuel	Roanoke
McManamon, Patrick V	Spring Valley	Price, William	Braceville
McMorrow, Michael	Farmington	Prince, Thomas	Gillespie
McMath, George	Cartersville	Proctor, Michael J	Toluca
McMurtie, A. B	Bryden	Prudent, Edward	Centralia
McWhinney, Andrew	Virdeu	Pryce, John M	Coal Valley
McMorrow, Thomas	Farmington	Pugh, Daniel	St. John
McNabb, Wm	Athens	Pullen, Charles	Litchfield
		Pullen, James	Sorento
		Pye, William	Bartonville
Neal, Reese	Kangley		
Neal, Albert M	Murphysboro	Raby, Robert A	Cuba
Neal, Wm	Murphysboro	Radford, Thomas, ex	Bloomington
Needles, Thadens	Glenburn	Radford, William	Cuba
Neeson, Richard	Divernon	Radford, James	Springfield
Neil, Peter, ex	Bunker Hill	Radford, William T	Bloomington
Newcomb, H. C	Pana	Rae, Robert	Braidwood
Newman, Henry T	Springfield	Ramey, Charles J	Gillespie
Newman, John	Kingston	Randis, Jesse	Birkner
Newman, Richard	Orchard Mines	Rarick, Phil. W	Glen Carbon
Newman, Richard, Jr	Kingston Mines	Ratcliffe, Arthur	Kewanee
Newman, Thomas	Kingston Mines	Rauth, John	Belleville
Newman, Thomas, Jr	Kingston Mines	Rasmussen, James E	Mineral
Nesbit, Charles, ex	Millstadt	Rasbottou, Frank	Kingston
Nevener, John	Belleville	Reagan, Daniel	Muddy Valley
Nevill, George W	Duquoin	Realey, Robert	Riverton
Nicholson, George A	Cuba	Redard, John	Odin
Nicholson, Wm	Cuba	Reeb, Phillip	Belleville
Nixon, Robert	Virdeu	Reed, W. M	Girard
Noll, Peter	Belleville	Reed, Wm. B	Williaman
Nold, Fred	Freeburg	Reents, August	Kramm
Nordeen, Peter	Galva	Reece, Daniel	Danville
Nordness, C. K	Girard	Reid, Andrew	Springfield
Notman, George	Streator	Reid, Joseph	Marion
		Reilly, Edward	Danville
O'Beirne, John	Spring Valley	Reimann, John	Belleville
O'Brien, John W	Toluca	Rernison, Henry	St. John
O'Brien, John J	Marquette	Reynolds, William	East Peoria
O'Brien, James	Belleville	Reynolds, John	Streator
O'Brine, Patrick J	Spring Valley	Rhodes, Jefferson	Pana
O'Brine, Wm	Pana	Richards, John	Murphysboro
O'Connor, James	Spring Valley	Richardson, Joseph	Litchfield
O'Connor, John	Braidwood	Richardson, Robert	Cartersville
O'Connor, Patrick F	Paisley	Ridgley, O. L	Mt. Olive
O'Leary, John	Marquette	Ritchie, Alex., Sr.	Clinton
Ople, Wm	Sandoval	Ritchie, A., Jr	Trenton
Owen, Wm	Tallula	Rittmann, J. J	Decatur
Owens, Robert	Marion	Roberts, Benjamin D	Streator
		Roberts, Hiram	Collinsville
Parker, Albert	Collinsville	Roberts, John D., ex	Streator
Pasent, Wm. C	Barclay	Roberts, Thomas D	Streator
Patchet, John	Murphysboro	Robinson, Henry	Gardner
Patterson, J. C	Assumption	Robinson, John T	Kingston Mines
Payne, Harvey	Riverton	Robinson, L. E	Kingston Mines
Peart, John	Braidwood	Rodden, John	Pana
Penwell, C. T	Pana	Rodenburg, Charles	Belleville
Perrell, Thomas	Norris	Roe, Samuel	Oglesby
Peters, J. D	Murphysboro	Roe, Thomas	Oglesby
Pettier, Moses	Spring Valley	Rogers, Charles	Duquoin
Phillips, James	Minonk	Rogers, Josiah	Braidwood
Pick, Edward	Centralia	Rogers, Llewellyn	Braidwood
Pickett, Robert	Spring Valley	Rollo, George	Mt. Olive
Picton, Joseph	St. David	Rollo, John	Gillespie
Picton, John W	Farmington	Rollo, William	Pana
Pierwin, Robert	Harrisburg	Rookin, Thomas	Edwards Station
Pierce, William	Edinburg	Ross, David	Oglesby
Poelker, Joseph	Germantown	Rosbottom, James	Kingston Mines
Poel, Edgar B	Murphysboro	Rowland, Charles, ex	Belleville
Potter, George	Mapleton	Rundle, John C	Colchester
		Rundle, William	Pekin

Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
dge, Walton	Alton	Stachle, August	Belleville
dge, J. J.	Stanton	Stanton, William E., ex.	Colchester
James (d)	Springfield	Stearns, James	Hallidayboro
Thomas	N. Springfield	Steiner, Benjamin	Sato
		Steel, Alexander	Streator
etlet, Marshall	Mt. Olive	Steel, Daniel	Collinsville
rs, John M	Hanna City	Steel, James	Spring Valley
m, Henry S., ex.	Streator	Steel, Neal	Centralia
, Frederick	Belleville	Stewart, D. G.	Seatonville
, William	Coal City	Stirrat, James	Peoria
ll, Joseph	Bartonville	Stockett, Howard N.	Springfield
m, Richard	Belleville	Stockett, Lewis	Collinsville
del, John	Bartonville	Stocket, Thos. R., Jr.	St. Louis, Mo.
schmidt, Ernst	East Peoria	Stockman, W. H.	Duquoin
, William J.	Glen Carbon	Stoneburner, L. L.	Moweaqua
ah, Castling R.	Braceville	Storrie, Archibald	Seatonville
tion, Charles W.	Lenzburg	Stratman, Henry, ex. (d)	Springfield
, Frederick D.	Odin	Straley, Peter	Canton
m, Thomas	Paisley	Strebel, George	Edwardsville
e, George	St. John	Strickland, John	Coal City
i, Charles	Danville	Stricklin, W. H.	Harrisburg
shan, John C.	Gillespie	Sutton, Thomas	Millstadt
, James	Peoria	Swansberg, John L.	Danville
, Montgomery, ex.	Coal City	Swarthout, J. P.	Peoria
en, R. A.	Galva	Syson, Frank	Niantic
, Joseph	Bartonville		
ds, Frank D.	Pana	Tallman, John, ex.	Kangley
ler, Charles	Gilchrist	Tatterhall, George	Seneca
l, John S.	Pana	Taylor, Charles	Edwards
l, James	Streator	Taylor, Daniel	Edwards
e, John	Edwardsville	Taylor, Henry	Belleville
in, Samuel	Streator	Taylor, James	Edwards
iona, Thomas	Canton	Taylor, Joseph	Springfield
son, Isaac	Glen Carbon	Taylor, Thomas, ex.	Ir. Fallon
son, David	Spring Valley	Taylor, Thomas, ex.	Springfield
son, David	Springfield	Tenney, Charles	Danville
son, George A.	Springfield	Thain, James	Riverton
son, George C.	Springfield	Thom, Alexander, ex.	Coal City
son, William J.	Collinsville	Thomas, H.	Westville
son, Thomas	Collinsville	Thomas, J. G.	Spring Valley
s. n, Thomas	O'Fallon	Thomas, John R.	Ladd
Charles A.	John-on City	Thomas, T. J.	Collinsville
A. J.	Equality	Thomas, Reese	Spanning
ier, Alexander	Diamond	Thomas, David B.	Murphysboro
ier, David (d)	Diamond	Thomas, Richard	Ridge Prairie
ier, John	Diamond	Thome, Martin, ex.	Bartonville
ier, John	Astoria	Thompson, John	DeSoto
on, A. H.	Coal City	Thompson, Robert C.	Murphysboro
l, Edward C.	Wesley City	Thompson, Mark	Sherrard
l, James	Middle Grove	Thompson, William	Mt. Olive
hurst, Nathan	Spring alley	Thornston, James	Duquoin
h, Alexander M.	Sandoval	Thorand, Joseph	Trenton
t, David P.	Dawson	Thrush, David	Farmington
t, Felix	Birkner	Tolle, E. B.	Kingston Mines
h, James	LaSalle	Tregoning, Walter	Murphysboro
h, George A.	Sandoval	Twomey, Edwin, ex.	Coal Valley
h, James L.	Mount Olive	Turton, William	Edwardsville
h, James	East Peoria		
h, James J.	Riverton	Ulrich, Casper	Tilden
h, James P.	Collinsville		
h, Henry W.	Springfield	Vallow, Charles	Kinmundy
h, Joseph	Bloomington	Vandebeur, John, ex.	Springfield
h, T. J.	Pana	Vandeveer, P. E.	Taylorville
h, William	Athens	Vicary, William	Pottstown
h, William G.	Riverton	Vicary, George	Pottstown
h, W. H.	Hillsboro	Vicary, John, ex.	Lincoln
h, Thomas	Belleville	Vose, John	Springfield
h, W. J.	Girard		
don, Richard	Virden	Wagner, I.	Mapleton
don, Alexander	Peoria	Walker, John K.	Chenon
nberger, Harry C.	Dunfermline	Wallace, David	Carterville
non, John	Springfield	Walland, Ed. S., ex.	Bartonville
nan, Peter H.	Springfield	Walmsley, George	East Peoria
sworth, Andrew P.	Belleville		
s, Alfred	Braceville		
ger, Albert E.	Glen Carbon		

Certificates of Competency—Concluded.

Name.	Postoffice.	Name.	Postoffice.
Walschtag, Stephen.....	Peoria.....	Williams, Wm. H.	Edinburg ..
Walsh, Patrick.....	Springfield.....	Williams, W. W.	Horusby ..
Walsh, Peter P.....	Pleasant Plains.....	Williams, David Y.	Herrin.....
Walters, Wm. H.....	Staunton.....	Williamson, Wm.....	Staurton.....
Wanless, Wm. H.....	Riverton.....	Wilson, Hiram E.	Carbondale ..
Wantling, T. J.....	Peoria.....	Wills, Samuel.....	Westville ..
Wantling, Thomas.....	Pottstown.....	Wilson, John.....	Coal City.....
Walters, Thomas W.....	Ladd.....	Wilson, David.....	Murphysboro ..
Ward, Wilson.....	Riverton.....	Wilson, David.....	Spring Valley ..
Warren, James M.....	Herrin.....	Wilson, Hugh.....	Kinnucudy.....
Watson, George R.....	Wyoming.....	Wilson, Alexander.....	Carbon Hill.....
Watkins, W. J.....	Danville.....	Wilson, Hiram.....	Carbondale.....
Watts, Thomas J.....	Elmwood.....	Wilson, H. C.....	Pekin.....
Watts, William.....	Elmwood.....	Wilson, John B.....	Sparta.....
Weber, Henry.....	Murphysboro.....	Wilson, John J.....	Wesley City.....
Webster, Richard.....	Collinsville.....	Wilson, Robert.....	Roanoke.....
Weeks, Thomas.....	Streator.....	Wilson, William.....	Middle Grove.....
Weisenborn, F. E.....	Mt. Olive.....	Wilson, Thomas.....	Norris.....
Wenneborg, Otto.....	Springfield.....	Wilson, Wm.....	Sparta.....
Westwater, David.....	Pekin.....	Wilson, W. R.....	Reed City.....
Westwood, Albert.....	Belleville.....	Winneberg, W.....	Springfield.....
Westwood, John.....	Streator.....	Winning, James.....	Cartersville.....
Westwood, Thomas.....	Belleville.....	Winning, Robert.....	Cartersville.....
Wheatcraft, James.....	Elmwood.....	Winterbottom, John.....	Murphysboro ..
Whennen, Charles.....	Oglesby.....	Winters, Samuel P.....	Bartonville.....
Whitaker, John.....	Collinsville.....	Wittman, Daniel.....	New Baden.....
Whitaker, Wm. J.....	Collinsville.....	Walschlag, Stephen, ex.....	Peoria.....
White, John R.....	Belleville.....	Wood, Henry.....	Streator.....
White, Michael.....	Virden.....	Woods, William, ex.....	Morris.....
White, Owen.....	Seatonville.....	Worthington, Willard.....	Duquoin.....
Whitehead, Joseph.....	Farmington.....	Wright, John.....	Belleville.....
Wild, James.....	Murphysboro.....	Wright, J. W.....	Kingston Mines.....
Wiley, Robertson.....	St. David.....		
Wilkinson, Frank.....	Westville.....	Yates, John.....	Belleville.....
Wilkinson, T. H.....	Diamond.....	Young, Hiram.....	Girard.....
Williams, James.....	Murphysboro ..	Young, Hugh G.....	Braidwood.....
Williams, Jeff.....	Farmington.....		
Williams, John.....	Riverton.....	Zink, Peter A.....	Belleville.....
Williams, Louis.....	Belleville.....	Zoller, Robert H.....	Braidwood.....
Williams, Robert H.....	Girard.....		
Williams, Walter.....	Duquoin.....		

MINE MANAGERS HOLDING CERTIFICATES OF SERVICE.

Name.	Postoffice.	Name.	Postoffice.
Adams, Charles T.....	Rosboro.....	Collier, Frank J.....	Bartonville.....
Alsopp, William H.....	New Castle.....	Cooper, Charles.....	Nilwood.....
Andreas, August.....	Belleville.....	Coster, George.....	Grape Creek.....
Angel, Hiram.....	Glenn.....	Crawson, Elhu.....	O'Fallon.....
Atkinson, Edward.....	Streator.....	Cummings, William.....	Rushville.....
Axford, Thomas.....	Petersburg.....	Cusack, M.....	Edwards.....
Bailey, Robert.....	Suntfield.....	Dale, John.....	Fredonia.....
Bangart, Henry (d).....	Lincoln.....	Davenport, John.....	Harrisburg.....
Bartlett, Thomas.....	Cuba.....	Davis, Caleb.....	Collinsville.....
Barwell, John.....	Cutler.....	Davison, Matthew.....	DuQuoin.....
Bates, W. H.....	Winchester.....	Deans, Henry.....	Percy.....
Betz, Charles C.....	Duquoin.....	Donahy, James.....	Cartersville.....
Bolander, John.....	Pekin.....	Duffner, J. W.....	Belleville.....
Bracken, James A.....	Greenville.....		
Brown, Jabez.....	Cutler.....	Enstlinger, Emanuel E.....	Crab Orchard.....
Brown, Thomas M.....	Pinckneyville.....	Entwhistle, Robert.....	Colchester.....
Bunting, J. H.....	Grape Creek.....	Erwin, William.....	West Belleville.....
Bushong, Andrew M.....	Danville.....		
Caldwell, James.....	Elmwood.....	Fagan, Patrick.....	Decatur.....
Cameron, Duncan S.....	Sorento.....	Fletcher, Adam.....	Ladd.....
Cape, Thomas.....	Fairview.....	Forsythe, Peter.....	Centralla.....
Chere, George.....	Pleasant Plains.....	Forsythe, Thomas.....	Centralla.....
Christie, David.....	Murphysboro.....	Fowler, Henry.....	Millersburg.....

Certificate of Service—Concluded.

Name.	Postoffice.	Name.	Postoffice.
Bernard.....	Lincoln.....	McDonald, Daniel.....	Menard.....
Edward.....	Niantic.....	McDowell, James A.....	Grape Creek.....
John.....	Peoria.....	McKernan, James.....	Collinsville.....
Wm.....	Cuba.....	Neal, William.....	Murphysboro.....
George.....	Springfield.....	Nicholson, William.....	Cuba.....
Henry.....	Orchard Mines.....	Noyd, Lewis.....	Galva.....
David.....	Pekin.....	Oexner, Wendelin.....	West Belleville...
Edmond.....	Roanoke.....	Parkin, William.....	Sweetwater.....
Bert.....	Springfield.....	Patterson, J. C.....	Assumption.....
Ed, Robert.....	Duquoin.....	Peart, John.....	Braidwood.....
Ester.....	Collinsville.....	Pfander, Fred.....	Peoria.....
William A.....	Colona.....	Pickett, Robert.....	Canton.....
Robert.....	Cable.....	Pool, Edgar E.....	Murphysboro.....
Daniel.....	Lenzburg.....	Price, David.....	Fairbury.....
Ernest.....	Streator.....	Price, James L.....	Danville.....
John L.....	LaSalle.....	Pullen, Charles.....	Sorento.....
William.....	Streator.....	Radford, William.....	Cuba.....
Wesley.....	Braidwood.....	Randle, Jessie.....	Birkner.....
James.....	Tallula.....	Reynolds, William.....	East Peoria.....
Myer, Julius.....	Golden Eagle.....	Royster, Moses L.....	Peoria.....
Eugene.....	Bartonville.....	Rusche, Christian (d).....	East Peoria.....
Wm. M.....	Duquoin.....	Ryan, James.....	Springfield.....
David.....	Marissa.....	Schmidt, Frank P.....	Limestone.....
George, Jr.....	Bartonville.....	Shaw, Nathan.....	Kramm.....
Andrew.....	Wenona.....	Smith, David P.....	Dawson.....
Eugene.....	Ridge Prairie.....	Smith, Felix.....	Breese.....
Bernard.....	Kewanee.....	Solomon, Robert.....	Springfield.....
Hagen, Henry.....	Belleville.....	Spencer, George.....	Duquoin.....
Anthony F.....	Sato.....	Stanway, George.....	Blair.....
Stus, Philip H.....	Tamaroa.....	Stark, Andrew.....	Galva.....
Charles.....	Belleville.....	Stewart, David J.....	Seatonville.....
Iosea W.....	Sheffield.....	Stuhlsatz, Michael.....	Kewanee.....
Mark, Jr.....	Sato.....	Sutton, Thomas.....	Millstadt.....
Robert.....	Belleville.....	Swan, Charles.....	Oakwood.....
Patrick.....	Breeds.....	Swisher, James E.....	St. David.....
Peter.....	Williamsville.....	Teifer, Alexander W.....	Morris.....
W. C. W.....	Augusta.....	Terrill, Thomas.....	Colchester.....
Lewis.....	Belleville.....	Thompson, John.....	DeSoto.....
Nicholas.....	Lebanon.....	Thornton, James.....	Duquoin.....
William.....	Lenzburg.....	Waugh, George, Sr.....	Peoria.....
John.....	Norris.....	Westwood, Thomas.....	Belleville.....
Thomas.....	Collinsville.....	Wilkin, John B.....	Petersburg.....
Thomas.....	Percy.....	Williams, John.....	Sato.....
Ed, Edward.....	Carbon Hill.....	Williams, John T.....	Coalville.....
Jeremiah.....	Danville.....	Williams, Walter.....	Duquoin.....
Robert.....	Virginia.....	Wilms, William.....	Springfield.....
John.....	Braidwood.....		
W. James.....	Kangley.....		

MANAGERS HOLDING CERTIFICATES OF COMPETENCY AT MINES EMPLOYING NOT TO EXCEED TEN MEN.

Name.	Postoffice.	Name.	Postoffice.
J.....	Laura.....	Ahlgren, Emil.....	Kewanee.....
J. M.....	Denmark.....	Alexander, Orie A.....	Huntsville.....
John.....	Danville.....	Allen, James T.....	Pleasant View.....
William R.....	Danville.....	Allen, W. P.....	Spillerton.....
M. M.....	Geneseo.....	Allison, John.....	Loding.....

Mine Managers (Ten Men), Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Allison, Elmer	Danville	Boestrom, Ben B.	Wataga
Anderson, Alexander	Sato	Bonnett, A. H.	Pilot
Anderson, Le. A.	Streator	Bowman, G. W.	Yates City
Anderson, N. C.	Ottawa	Bowman, T. L.	Industry
Anderson, Josh.	Equality	Boyer, A. P.	Etherly
Anderson, M. H.	Knorrville	Brackhouse, Fred	Chapin
Anna, Charles	Wataga	Braunaman, F. L.	Danville
Argus, Leonard	Belleville	Brandt, Jean	Georgetown
Arrandale, Jno. W.	Streator	Brandt, Henry C.	Petersburg
Ascraft, J. W.	Mayton	Brandt, William	Mineral
Aston, Emanuel	Danville	Brannon, James	Grape Creek
Atkinson, Amos	Colchester	Brennan, George	Caseyville
Atkinson, M.	Kewanee	Hrinley, Ross	Danville
Atkinson, Chas. W.	Colchester	Broderick, Andrew	Danville
Auglin, John	Shelbyville	Brophy, M.	Shelbyville
Avery, Geo. W.	Industry	Brown, John	Ottawa
Axley, Edward	Roodhouse	Brown S. C.	Lewistown
		Brooker, Fred	Lowell
Backling, William	East Peoria	Bryan, John	Grape Creek
Backofen, Jacob	Littleton	Bryant, S. C.	Grape Creek
Bailey, Oliver	Carbondale	Bryner, Leonidas	Roseville
Baird, W. C.	Carbondale	Buchanan, H. M.	Streator
Baird, Oswald	Colchester	Bullock, Joseph	Collinsville
Baker, L. C.	Oakwood	Bullock, Robt.	Duquoin
Baker, William H.	Industry	Bunt, Joseph	Colchester
Baker, Joseph	Ottawa	Bunting, C. J.	Danville
Baker, F. W.	Fairbury	Hurdick, Frank	Industry
Baker, Wm. J.	St. David	Burk, W. W.	Conant
Bales, Joseph L.	Danville	Burney, Ralph	Colchester
Balmar, Jno. D.	Bartonville	Butter, William	Stoneston
Ball, Samuel	North Alton	Byrnes, John	Brighton
Banney, H. E.	Abingdon		
Barber, William	Colchester	Cagle, William	Frederick
Bargreen, Charles	Streator	Cagle, John	Littleton
Barnett, W. M.	Palzo	Cagdoll, A. C.	Stoneston
Barter, Charles	Bryant	Caldwell, Thomas	Avon
Bass, Oscar J.	Wyoming	Camey, Robt. P.	Lombardville
Bates, Geo. H.	Kewanee	Campbell, Ed.	White Hall
Bates, Watson	Rushville	Campbell, Andrew F.	Roseville
Bath, Isaac	Lewistown	Campbell, Francis A.	Viola
Bath, Abraham	St. Davis	Campbell, W. R.	Vergennes
Baugh, William	Henry	Cameron, Henry	Viola
Beatty, John T.	Mascoutah	Carlson, Alfred	Sunny Hill
Beatty, John T.	Mascoutah	Carlson, Andrew F.	Kewanee
Becroft, Leonard	Atkinson	Carroll, C. E.	Duncan
Bectler, John	Pekin	Carroll, Thos. J.	Bunker Hill
Beddow, Benj.	Danville	Carrel, A. J.	Duquoin
Beers, M. A.	Cable	Carter, Elmer	Camden
Beever, J. H.	Farmington	Carter, Joe	Kewanee
Begum, Geo. E.	Ottawa	Carter, F. R.	Danville
Bell, James	Morris	Carter, Wm. B.	Danville
Bell, Charles	Pleasant View	Carson, Charles H.	Flatt
Beltz, Lindolph	Carterville	Carrison, George	Colchester
Helz, George	Carterville	Casteter, John	Streator
Hennet, Fred	Chillicothe	Casteter, William	Streator
Benson, William	Winchester	Catt, A. G.	Newton
Berry, John	Macomb	Carton, John	West Jersey
Berry, Charles	Monica	Catton, C. F.	West Jersey
Berry, W. J.	Macomb	Chadwick, E.	Oak Hill
Berry, R. M.	Cottage Grove	Charlingworth, Amos C.	Fosterburg
Berry, Wm.	Monica	Charlson, Chas.	Wyoming
Beuer, Jacob W.	Castletown	Charnok, Wm.	Victoria
Beuer, Joseph	Castletown	Chesnev, Alonzo T.	Avon
Bexton, William G.	Colchester	Chilton, Richard	Kewanee
Biggs, Henry	Ledford	Chipping, W.	Canton
Bird, Daniel	Roseville	Chorlton, James	French Village
Birds, D.	Peoria	Christman, Charles W.	Spartan
Birds, John	Peoria	Clark, James A.	Equality
Blackburn, Kelly	Johnson City	Clark J. H.	Brimfield
Blagden, Richard	Leaman	Clarkson, William H.	Edwards
Blakes, Cuthbert	Wyoming	Clarkson, Lorenzo	Kickapoo
Blessing, George	East Peoria	Clifton, Geo. L.	Onedia
Blockley, Rufus	Equality	Cody, Richard	Peoria
Blotvagat, William	Worden	Coespire, G.	Galena
Blue, J. W.	Grape Creek	Colburn, John M.	Vanderburg
Blue, Ed.	Grape Creek	Collins, Thomas	Collins
Bode, W. H. H.	Chesterfield	Collins, A. Y.	Greenfield
Boden, Ed.	Pre-emption	Collins, W. N.	Avon
Boldwyn, T. W.	Vergennes		

Managers (Ten Men), Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Robert I.	Brimfield	Durham, Simon	Canton
George Lewis M.	Duncan	Dunsford, Charles	Absher
Irles	Wyoming		
ies K	Oakwood	Ebel, August	Belleville
H	Grape Creek	Eccles, Frank	North Alton
is B	Etherly	Edison, James	Ottawa
	Alexis	Edwall, C. W.	Galva
	Etherly	Edwards, Thomas	Streator
ibert W.	Peoria	Edwards, T. J.	Crab Orchard
V. P.	Petersburg	Edwards, Geo.	Huntsville
W	Pinkneyville	Edward, David L.	Coal Valley
Foster	Kewanee	Edwards, A. G.	New Burnside
lle	Wyoming	Edwards, John	Danville
George	Ava	Elmwood, A. B.	Kewanee
in H	Colchester	Elker, Geo. L.	Knoxville
eph	Morris	Elliott, James	Caseyville
	Chillicothe	Elliott, James	Danville
	Stonefort	Ellis, Ross M.	Farmington
	Ava	Emrick, Alonzo	Peoria
red W.	Pleasant View	Ennis, James	Crab Orchard
Walter	Pleasant View	Ensininger, E. E.	Colchester
	Etherly	Entwistle, W.	Belleville
arnes W.	Union	Erhardt, Anton	Galva
am, Lewis	Danville	Erikson, August	St. John
am, R. A.	Cutler	Ernst, Frank	Morris
Wm. M.	Rushville	Espley, J. T.	Soperville
rnford	Rockbridge	Essex, G. W.	Streator
H.	Princeville	Evans, Ed K.	Kangley
		Evans, Lewis	Cottage Grove
		Evans, W. L.	Lewistown
		Eynman, Albert	
oseph	Danville		
ibez	St. David	Fairley, John	Cambridge
am	Yates City	Farrell, Hugh	Monica
Y.	Danville	Faust, Jacob	Pinckneyville
N	Blandinsville	Fenwick, Geo. A.	Danville
r, Robert T.	Tatle Grove	Filker, George	Farmington
Irles	Abingdon	Fink, Frank	Truro
amin	Streator	Fish, William	Appleton
	Fayette	Fisher, W.	Murrayville
is, R.	Salisbury	Fisher, Alcide	Brighton
Thomas	Griffin	Flemming, Thomas	Morris
Bert	Colchester	Flynn, William	Briar Bluff
agustus	Yates City	Foley, William H.	Mapleton
C.	Deer Park Glen	Forester, W. M.	Equality
abraham L.	Middletown	Foster, Geo. W.	Colchester
amille	Orchard Mines	Foster, Thurman	Carbondale
Thomas	Avon	Fox, Thomas	Lewistown
G. F.	Equality	Francis, Wm. G.	Streator
J. I.	Equality	Francis, C. W.	Catlin
Ernest	Victoria	Fredrickson, Andrew	Danville
avid C.	Wyoming	French, Strawther	Bradford
red	Petersburg	Frishy, E. O.	Sparland
Joseph	Morris	Frishy, W. E.	Sparland
Wm. W.	Colchester	Frost, Michael	Danville
Phillip	Freeburg	Fry, John	Ray
tin	New Burnside	Fuller, James K.	Modena
	Princeville		
E.	Kewanee		
Jas. R.	Pre-emption	Gaddis, Ed.	Hudgens
	Lafayette	Gallagher, W. F.	Mode
Wm F.	East Peoria	Gallaith, Zacharias	Morris
ter	Wataga	Garney, Thomas	Carbon Cliff
uis	Green River	Garland, Samuel	Kewanee
H.	Truro	Gary, George	Ray
V. P.	Pre-emption	Geisler, Henry	Brighton
lien B.	Campbell Hill	Gedelman, E. F.	Freeburg
Chas.	Danville	Gensch, Joseph	Lewistown
Edward	St. David	Giebelhausen, Gus E.	Peoria
phen A.	Canton	Gergens, Martin	Pinckneyville
L.	Vandercook	Gerlach, Geo. F.	Sparta
idrew	Danville	Gilbride, Frank	Morris
F.	Knoxville	Gilderny, W. W.	Monmouth
ert G.	Kewanee	Gillette, Charles	Elmira
	Tennessee	Gillis, Neal M.	Winchester
ohn	Sheffield	Gillis, Fred K.	Danville
rey	Oscola		
	Brimfield		

Mine Managers (Ten Men), Certificates of Competency—Continued

Name.	Postoffice.	Name.	Postoffice.
Gilligan, Jackson	Industry	Hinderer, Frank	Frederick
Glenn, Jethro	Briar Bluff	Hoar, William	Colchester
Goble, Frank M.	Industry	Hodge, S. M.	Danville
Golden, James	Kewanee	Hodge, John W.	Kushville
Golden, Richard	Kewanee	Hodge, Benjamin A.	Danville
Goode, Joseph	Lombardville	Hodgett, Absalom	Kewanee
Goudy, W. S.	Brimfield	Hodgson, Wm.	Colchester
Grant, August	Kewanee	Hogercamp, Walter	Pontiac
Greear, William	Coal Valley	Hohimer, Harry	Petersburg
Green, Samuel J.	Colchester	Holley, Wm. G.	Wyoming
Green, Clarence	Spartan	Horrocks, Benj.	Henry
Green, Milton	Kelthsburg	Houseman, Fred	Fosterburg
Grice, Albert	Kewanee	Howard, Charles	Modena
Griffiths, Edward	Roodhouse	Howe, Wm.	Streator
Griffiths, Thomas W.	White Hall	Huber, W. H.	Lewistown
Griffiths, D.	Caseyville	Hughes, John	Petersburg
Griffiths, James	Grape Creek	Hudson, Samuel	White Hall
Griffiths, Joseph F.	Moline	Humes, Michael	Colchester
Griggs, Allison	Brimfield	Hurst, John	Belleville
Grim, David, Jr.	Victoria	Hurst, Lot	Bartonville
Grossman, Louis	Smithton	Isackson, Martin	Wataga
Grosweiler, Joseph, Jr.	Pekin	Isackson, P. O.	Wataga
Groth, John	Carbon Cliff	Ingram, Robert H.	Spartan
Groy, Max	Kewanee	Ingram, J. S.	Harrisburg
Guckert, P. P.	Hampton	Irwin, James	Green River
Gunnett, A. J.	Fairview	Irwin, Fred	Smithton
Gurten, Louis	Pinckneyville	Ivans, W. A.	Cottage Grove
Guy, Thomas	Colchester		
Haiding, James A.	Wyoming	Jacobs, John	Wataga
Hall, John	Colchester	Jacobs, Claude	Danville
Hall, John	Grape Creek	Jacquot, Augustare	Danville
Hall, Charles	Dunfermline	Jack, John	Marion
Hall, Geo. W.	Newton	Jamieson, E. J.	Loding
Hamilton, John W.	Frederick	Jamieson, Guy	Loding
Hamilton, John	Cuba	Jarrell, Miles	Cottage Grove
Hamilton, Gail G.	Frederick	Jayne, Richard	Cuba
Hammert, Otto J.	Chillicothe	Jenkins, D. A.	Danville
Handly, John L.	Coal Valley	Jenner, A. T.	Pinckneyville
Hanmann, Wm.	Okawville	Johnson, C. E.	Canton
Harbaugh, Geo. W.	Chesterfield	Johnson, Cornelius P.	Middletown
Harnisch, Ernest	Brighton	Johnson, J.	Farmington
Harrington, Frank	Farmington	Johnson, Benjamin	Smithboro
Harrington, D.	Danville	Johnson, J. E.	Dunfermline
Harris, A. J.	Tilton	Jones, W. L.	Bradford
Harris, Oliver	Canton	Jones, C. S.	Sato
Harris, Hardy	Catlin	Jones, W. W.	Bradford
Hartman, John	Peoria	Jones, A. J.	Peoria
Harvey, John	Murphysboro	Jones, A. H.	Colchester
Haskins, Alfred	Grape Creek	Jones, James H.	Streator
Havens, Bert	Truro	Jones, John L.	Peoria
Haves, C. G.	Kewanee	Jones, Jackson	Winchester
Heathcock, George	Princeton	Jones, W. H.	Catlin
Heather, James	Morris	Jones, Wm. J.	Kewanee
Heintz, A. F.	Kickapoo	Jones, Evan A.	Corlin
Hendee, Isaac	Bernadotte	Jones, Arthur	Viola
Henry, Samuel	Danville	Jones, Thomas	Peoria
Henson, John E.	Denmark	Jones, Andrew	Winchester
Hennemann, Charles	Belleville	Jos. Conrad	Peoria
Herman, John	Oraville	Jordan, Will	St. David
Herman, John	Kewanee	Jordan, John L.	Trivoli
Herkstrom, E.	Victoria	Jordan, R. S.	Newton
Herrington, Thomas	Princeton	Joubert, George	Grayville
Herseman, Herman	East Peoria	Jourdan, Wm. L.	Smithton
Hewitt, William B.	Chenoa		
Hews, W. B.	Canton	Kabel, Herman	Moro
Hibberd, Lewis W.	Peoria	Kavanaugh, J. A.	Colchester
Hickson, David	Ottawa	Kay, James	Atkinson
Hicks, Wm. E.	Crab Orchard	Kay, William H.	Morris
Hickman, Willis	Frederick	Kay, Bert	Atkinson
Higbee, Lawrence	Princeville	Kay, Robert	Briar Bluff
Hissong, Charles	Tilden	Kay, Wm. G.	Atkinson
Hibbard, Geo. A.	Limestone	Kelly, Thomas	Grape Creek
Hillard, E.	Colchester	Kear, George G.	Spartan
Hillier, Walter T.	Carbondale	Kearney, John	Shelbyville
Hind, Robert	Salisbury	Keel, W. L.	Stonewort

Managers (Ten Men), Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
G. G.	Friendville	Martin, Geo.	Kewanee
Henry	Kewanee	Marriage, Joseph	Grape Creek
William	Rushville	Marker, Joseph	Milwaukie
A. J. W.	Briar Bluff	Marley, Richard	Atkinson
	Roseville	Marshall, G. A.	Cuba
n, Wm C.	Shawneetown	Marshall, J. C.	Caseyville
mbrose L.	Victoria	Mason, Frank A.	Carbondale
Wm T.	New Burnside	Masey, Jesse	Streator
eph	Pekin	Matsinger, Theodore	Crab Orchard
enry R.	Campbell Hill	Mauck, Joseph	Danville
ish	Wyoming	Mauck, I. F.	Danville
n, Paris	Equality	Medears, Jas.	Henry
Oscar	Streator	Meeker, H. F.	Danville
William	Colchester	Melvin, Leo	Kewanee
ius, Emil	Belleville	Melvin, R.	Kewanee
John	Roodhouse	Mellegram, John	Petersburg
n, Fred	Rapid City	Meller, Louis	Brighton
np, A.	North Alton	Mennier, I.	Canton
		Meny, Geo.	St. David
David	Monica	Merrin, G. W.	Crab Orchard
Edwin	Kewanee	Merrill, R. M.	Campbell Hill
t, Austin H.	Keansburg	Mesher, W. T.	LaHarpe
ines	Peoria	Mertz, Wm. M.	Ottawa
ichard	Colchester	Mills, Henry	New Douglas
Nick	Pinckneyville	Miller, George A.	Danville
John	Grape Creek	Miller, Silas	Grape Creek
omas	Youngstown	Miller, Eliza	Grape Creek
nes	Alexis	Miller, Smith	Mapleton
Charles W.	Cable	Miller, L. S.	Grape Creek
let, O. W.	Equality	Miller, George A.	Danville
Charles W.	Galesburg	Miller, C. G.	Youngstown
Charles E.	Cambridge	Mitchell, Robert T.	Prairie town
Thomas	Cartersville	Mobaker, John	Danville
ice, B.	Youngstown	Molloy, John	North Alton
Alfred	Cable	Monroe, Archie	Carriers Mills
E.	Kewanee	Montooth, Chas.	Bradford
P.	Canton	Moorman, Mark	Illinois City
ugust	Danville	Morrison, Alva	Modena
ck, P.	Wataga	Moore, John K.	Orian
L.	Grape Creek	Moore, Nanly	Saline Mines
elter, J. R.	Canton	Moore, W. F.	Victoria
George	Roseville	Moore, Sim J.	Cottage Grove
ohn T.	Roodhouse	Moran, Michael P.	Sheffield
H.	Roodhouse	Morrison, D. D.	Danville
id, Joseph	Brimfield	Morris, Geo. J.	Millersburg
yn, Edw.	Danville	Morgan, Charles	Oneida
isha	Danville	Mordue, Geo.	Colchester
Benj. P.	Danville	Mosher, Charles	Etherly
J. E.	Danville	Moss, Oliver	Vergennes
e, David L.	Lewistown	Morton, T. J.	Danville
g, E.	Loding	Mowbray, Jno.	Atkinson
B.	Chesterfield	Muir, George	Victoria
mes	Galva	Munts, Wm.	Streator
Samuel	Lewistown	Mulvaney, Chris	Farmington
O.	Atkinson	Murphy, Fred	Belleville
g, Edward J.	Fosterburg	Murphy, Led.	Monmouth
g, Lewis	Brighton	Murphy, Chas. H.	Canton
g, Chas. H.	Brighton	Murkin, Kenneth	Kewanee
rd, John H.	Bunker Hill	Murray, Samuel	Monmouth
Maxwell	Coal Valley	Mustard, Elijah	Canton
		Muzzey, William H.	Peoria
William	Fairview	Myers, W. H.	Carbondale
G. W.	Ray	Myers, Geo.	Ottawa
Harry	Duquoin	Myers, Perry	Bethalto
ren, James W.	Petersburg	Myers, Chas.	LaHarpe
Richard	Rock Island	McAnnally, Jno.	North Alton
William, Sr.	Colchester	McArthey, C. T.	Alexis
G. W.	Laoc	McDaniel, Chas. C.	Wyoming
J. B.	Lanc	McClure, Marion	Colchester
J. W.	Farmington	McCullough, Jas.	Ottawa
Fred	Peoria	McDonald, Samuel	Mero
John H.	Canton	McFawc, Charles P.	Winchester
Patrick	Peoria	McGovern, T. B.	Oneida
William Jr.	Colchester	McGovern, S.	Oneida
David A.	Canton	McGuire, John	Alsey
		McGuire, Patrick	Winchester
		McIntire, Geo.	Industry

Mine Managers (Ten Men), Certificates of Competency—Continued

Name.	Postoffice.	Name.	Postoffice.
McKahan, Samuel R	Alexis	Porritt, Thomas	Carterville
McKane, R.	Galva	Portwood, James	Lewistown
McKeen, William H.	Danville	Potter, L.	Mapletown
McKinney, Charles	Cottage Grove	Powers, James	New Burnside
McLain, William H.	Equality	Presson, J. A.	Carbondale
McLaughlin, Joseph	R. F. D., No. 5	Price, John	Wyoming
McMichael, T. M.	New Burnside	Proctor, Christopher	Elmwood
McMullin, William J.	Streator	Pugh, Geo. J.	Ava
McNaught, Henry	Williamsfield	Putnam, Jonah S.	Danville
McNeil, William	Griffin	Pyle, Joseph F.	Kewanee
Nee, John J.	Colchester	Raddlebeck, Joseph	Brimfield
Nelson, James	Knoxville	Raffee, Robert	Farmington
Nelson, Louis	Streator	Rains, Charles	Oraville
Nelson, Nels.	Ottawa	Rand, John	Bryant
Nelson, John S.	Morris	Randa, Thomas	Chesterfield
Nelson, Chris.	Chandlerville	Ratliffe, Arthur	Neponset
Nenneker, Andy	Bushnell	Ratley, Charles	Cypress Junction
Nenneker, Fred	Bushnell	Ray, A. B.	Catlin
Neville, Wm.	Catlin	Ratley, James E.	Equality
Newell, J.	Sparland	Ray, William	Danville
Newton, F. B.	Modena	Rayborn, George	Winchester
Newton, Geo. H.	Toulon	Reed, William	Soperville
Newton, Ben F.	Bradford	Reynick, William C.	Modena
Nibbelin, John	Elwood	Reed, W. B.	Wilman
Nigawronger, Asa	Sparland	Reed, John	Herrin
Nodeon, E. W.	Wataga	Reib, Conrad	Belleville
Norris, Floyd	Duquoin	Reid, J. Thomas	Salline Mines
Nozley, Alfred	Golden	Reinhardt, Frank	Wataga
Nyde, John E.	Galva	Reiff, Jacob	Kewanee
O'Daniel, Arthur	Danville	Reeves, John	Hudgens
Oldham, Ralph	Colchester	Revis, J. H.	Roodhouse
Odum, D. B.	Carriers Mills	Reynolds, James	Colchester
Owens, Orby G.	Stonefort	Renshaw, John	Eden
Pahlman, H.	Bluffs	Reese, Lemuel	Streator
Parker, William	Milan	Rhoades, Benjamin	Shelbyville
Parker, W. G.	Winchester	Ribley, R.	Cuba
Parle, Sylvester	Danville	Richardson, John	Shelbyville
Parr, Joseph	Princeville	Richardson, William	Moro
Parthan, M.	Sato	Richards, Thomas	Ottawa
Paul, John	Sheffield	Rich, John C.	Carbondale
Payne, Charles C.	St. John	Richard, George	French Village
Pearson, William M.	Astoria	Riegels, Adolph	Golden Eagle
Pearson, John	Colchester	Riley, J. K.	Breeds
Peck, E. E.	Canton	Riley, Michael	Braidwood
Pendergast, John	Soperville	Riley, Cyrus W.	Mineral
Penman, James	Streator	Riley, Elmer	Atkinson
Penman, William	Preemption	Ringer, Benjamin	Morris
Penn, George	Belleville	Robbins, J. W.	Glasford
Penn, Henry	Brimfield	Robinson, Benjamin	Wyoming
Perkins, John E.	Osceola	Robinson, William	Colchester
Perkins, J. B.	Ray	Robinson, J. M.	Elmira
Perdue, Joseph	Hudgens	Robinson, John W.	Wyoming
Perry, D. E.	Colchester	Robinson, Robert	Wyoming
Peters, Benard	Swansea	Robinson, Wm. H.	Macomb
Peters, M.	Streator	Roberts, Evan D.	Streator
Peterson, August	Soperville	Roberts, David	Orchard Mines
Peterson, August	Osceola Twp.	Roberts, Henry F.	Modena
Petrie, George	Pekin	Roddie, Charles	Ipava
Phillips, Sebirt	Carbondale	Roddie, Wm.	Ipava
Preston, Bryan B.	Cable	Rodell, Frank	Wataga
Presswood, C.	Pinckneyville	Rogers, David	Kickapoo
Price, Benjamin	Kewanee	Rohr, Joseph C.	Alexis
Pichon, Joseph	Danville	Roland, Adolph	Grape Creek
Pickett, George	Danville	Rook, G. H.	Canton
Pistor, William	Millstadt	Rook, John	Brimfield
Polonius, George	Colchester	Roosa, V. L.	Pleasant View
Pollit, James H.	Canton	Rose, James	Equality
Poole, Plummer	Danville	Royse, Sylvester	South Danville
Poore, William	Kickapoo	Ryan, Phillip	Ashland
Posten, M. W.	Briar Bluff	Russell, John R.	Danville
Porter, William H.	Macomb	Sackville, James	Coal Valley
		Sample, John	Laura
		Saunders, W. G.	Monka

2 *Managers (Ten Men), Certificates of Competency—Continued.*

Name.	Postoffice.	Name.	Postoffice.
ers, David T.....	Peoria	Stroud, William.....	Marion.....
, John J.....	Peoria	Suggett, William.....	Breeds.....
Charles A.....	Canton.....	Summerson, John.....	Coal Valley.....
Jesse.....	Modena	Summerson, Robt.....	Coal Valley.....
n, M.C.....	Canton	Swanson, Axel.....	Cable.....
er, William.....	Danville	Swanson, Otto.....	Cable
dt, August.....	Millstadt.....	Swanson, Andrew.....	Colchester
dt, George.....	Millstadt.....	Swenson, John.....	Danville
dgall, Jno. L.....	Murphysboro.....	Sydall, Peter.....	North Alton.....
e, William.....	Kickapoo.....	Swafford, William.....	Duquoin
eder, Fred C.....	Coal Valley.....	Swan, Chas. W.....	Marion
z, Fred.....	Braceville.....	Switzer, James.....	Astoria.....
John.....	Modena.....	Swisher, Trumont.....	Danville
Frank.....	Danville		
k, J.....	Monmouth.....		
Henry.....	Peoria	Tarpley, W. S.....	Marion
it, Frank.....	Belleville.....	Tanner, Anderson.....	Absher.....
ar, Michael.....	Ava.....	Tattersoll, George.....	Seneca.....
, Solomon.....	Summum.....	Taylor, James.....	Belleville
John G.....	Danville	Taylor, Robert.....	Princeville.....
ne, Abe.....	Macomb.....	Taylor, Francis.....	Blandinsville.....
tt, James.....	E. Peoria.....	Taylor, Jno. S.....	Neponset.....
er, R. D.....	Pekin.....	Taylor, J. W.....	New Burnside.....
n, W. J.....	Cottage Grove.....	Teague, James.....	Winchester.....
erd Wm. A.....	Catlin	Teel, James.....	Industry
William.....	Chandlerville.....	Telfer, John K.....	Morris
S.....	Carbon Cliff.....	Telfer, John W.....	Morris
ons, Alfred B.....	Roodhouse.....	Tesdale, Henry.....	Morris
s, William H.....	Monica	Thompson, Jacob.....	Grape Creek.....
t. John.....	Alexis	Thompson, James F.....	Ray.....
on, Charles.....	Wataga.....	Thompson, Joseph.....	Etherly.....
on, Newton M.....	Ray.....	Thompson, Joe.....	Grape Creek.....
on, Joseph.....	Youngstown.....	Thomas, William.....	Streator.....
, H. P.....	Stonefort.....	Thomas, James.....	Danville
it, James.....	Centre Station.....	Thomas, George.....	Sheffield.....
Miles B.....	Etherly.....	Thomas, Samuel.....	Catlin
, John.....	Atkinson.....	Thurston, John H.....	Wyoming.....
, A. J.....	Saline Mines.....	Tilley, Wm.....	Duquoin.....
, Geo. W.....	Colchester.....	Todd, Ralph.....	Kewanee.....
, James.....	Princeton.....	Todd, Geo. B.....	Catlin
, B. F.....	Modena	Todd, John.....	Victoria.....
, John.....	Frederick	Toney, A.....	Grape Creek.....
, Thomas B.....	Streator.....	Tompkins, C. S.....	Mineral.....
, Thomas.....	Ottawa.....	Tompkins, Harvey.....	St. David.....
, Charles.....	Sparland.....	Towner, L. H.....	Bluff City.....
, John.....	Danville	Treasure, William.....	Essex.....
, Leonard.....	Atkinson.....	Tucker, Charles.....	Mineral.....
erger, John.....	Victoria.....	Tucker, Edward.....	East Peoria.....
ly, Joseph.....	Streator.....	Tucker, P. F.....	Whitehall.....
ler, Charles.....	Danville	Tulk, M. B.....	Colchester.....
, Charles.....	Crab Orchard.....	Tully, P. F.....	Brimfield.....
, Edgar.....	Astoria.....	Turner, John.....	Lewistown.....
er, Charles.....	Victoria.....	Turner, George.....	Lewistown.....
, Henry.....	Herrin	Twiney, William A.....	Shelbyville.....
ler, Elmer.....	Carbondale.....	Tygett, John.....	Carbondale.....
man, Ed.....	Brighton.....	Tyla, H.....	Wataga.....
, W. H.....	Equality.....	Tyler, Church.....	St. David.....
ir, James A.....	Macomb.....	Tyson, Thomas.....	Marion
ns, Isaac.....	Cuba.....		
, Joseph.....	Pekin.....		
is, John.....	Cuba	Underwood, J. H.....	Equality.....
William.....	Danville		
er, Jacob F.....	Arenzville.....		
Isaac.....	Colchester.....	Vandyke, William.....	Canton.....
William.....	Colchester.....	Varnier, Wilson.....	Marietta.....
Charles.....	Colchester.....	Vaughn, Willam.....	Jubilee.....
Thomas.....	Carbon Cliff.....	Vaughn, Elijah.....	Jubilee.....
, Harry.....	Toulon.....	Vaught, John H.....	Shawneetown
, J. E.....	Canton.....	Vezain, George.....	Ottawa.....
, James H.....	Norris	Vickery, Henry.....	Pottstown.....
, Charles.....	Roseville.....	Vogt, Leon.....	Shawneetown
, William.....	Shelbyville.....		
inger, Conrad.....	French Village.....		
in, Thomas A.....	Marion	Wages, E.....	Canton
n, O. F.....	Rushville.....	Waine, James.....	Atkinson.....
, Ralph.....	Pleasant View.....	Wainwright, Arthur.....	Sweetwater
, J. P.....	Shawneetown	Wahlburg, Albert.....	Knoxville

Mine Managers (Ten Men), Certificates of Competency—Concluded.

Name.	Postoffice.	Name.	Postoffice.
Walck, Peter S	Farmington	Williams, Alfred	Boden
Walker, James	Mapleton	Wilkerson, J. F	Grape Creek
Wallis, D. J.	New Burnside	Willis, Alex	Oraville
Walsh, John	Truro	Willis, Charles	Mapleton
Walsh, John	Milan	Wilson, George	West Jersey
Walton, A. W.	Princeton	Wilson, John	Colchester
Ward, J. D.	Pulley's Mill	Wilson, A. E.	Macomb
Watkins, W. J.	Danville	Wilson, Thomas E.	Blandinsville
Watts, Alexander	Paris	Wilson, Joseph	Swan Creek
Watson, William	Wyoming	Wilson, Anthony	Danville
Watson, Jas.	Carterville	Wilson, George	Marion
Wayland, James	Colchester	Wilson, Arthur	Carterville
Weimer, J. R.	Cambridge	Willstead, Thomas	Rio
Wearmouth, Thomas	Youngstown	Winchouse, W.	Danville
Webster, William	Colchester	Wings, James	La Harpe
Webster, A. J.	Danville	Wirming, Robert	Sato
Weiss, W.	Belleville	Wisley, H. C.	Vergennes
Wells, E. W.	Briar Bluff	Wiseman, Ernst	Peoria
Welford, T. H.	Absher	Wonderling, Henry	Danville
West, John C.	Pine Grove	Wood, Benjamin	Pinckneyville
West, John A.	Pine Grove	Woodcock, Wm. H.	Etherly
Westerlund, John	Streator	Wood, Sam'l	Saline Mines
Whalen, M., Jr.	Colchester	Woodbury, John	Green River
Wheelhouse, Samuel D.	Rushville	Woods, James	St. David
Whittaker, Aaron	Roodhouse	Woodard, John	Oakwood
White, Charles F.	Danville	Woodward, W.	Soperville
White, Charles	Wyoming	Wonders, Henry	Streator
White, M. C.	Pawnee	Worthington, H.	Streator
White, Henry	Elmwood	Wren, T. K.	Morris
White, Wm. J.	Hartonsville	Wright, Joseph	Fairbury
White, John A.	Frederick	Wright, Hiram	Danville
Whynn, Wm. E.	Coal Valley	Wuninsling, James	Sheffield
Wilkinson, M. C.	Danville		
Wilcock, Wilson	Astoria	Yerman, Timothy	Cuba
Willey, Hiram	S. Danville	Young, John A.	Carterville
Williams, Joseph	Mode	Young, S. J.	Griffin
Williams, Andrew	N. Alton		
Williams, James F.	Kewanee	Zetter, Albert	Freeburg
Williams, Jerome	Tiskilwa	Zink, G. W.	Peoria
Williams, Joseph	Preemption	Zah, John	Mt. Pulaski
Williams, W. J.	Colchester		
Williams, W. P.	Laoc		
Williams, Oren	Tiskilwa		

HOISTING ENGINEERS HOLDING CERTIFICATES OF COMPETENCY.

—This list includes all the hoisting engineers to whom certificates have been issued prior to Jan. 1, 1905.

Name.	Postoffice.	Name.	Postoffice.
C. F.	Nilwood.....	Barton, C. W.	Cable.....
Henry.....	Breese.....	Barton, Charles W.	Fairmount.....
Nelson.....	Lincoln.....	Bateman, Harry.....	Murphysboro.....
Wm. H.	Braidwood.....	Bateman, R.	Murphysboro.....
rth, Samuel, Jr.	Taylorville.....	Bates, Thomas W.	Winchester.....
T. G.	Tilden.....	Bath, Arneston.....	Cuba.....
ier, Henry.....	Oglesby.....	Baumgartner, Geo. J.	Edwardsville.....
ier, W. A.	Roseboro.....	Beard, Charles A.	Streator.....
Edward.....	Collinsville.....	Beatty, James H.	Mascoutah.....
Joseph.....	Collinsville.....	Beatty, Geo. W.	Mascoutah.....
David.....	Collinsville.....	Beatty, Nepha.....	Mascoutah.....
E.	Troy.....	Beck, Peter L.	Springfield.....
H.	Seneca.....	Becker, Fritz.....	Mt. Olive.....
l, William.....	Springfield.....	Becker, F. M.	Sandoval.....
, H. P.	Collinsville.....	Beharelle Alfred.....	Mapleton.....
on, Henry.....	Lincoln.....	Behrend, A. D.	Springfield.....
on, J. F.	Pinckneyville.....	Beeby, William.....	Springfield.....
on, W. C.	Elmwood.....	Beese, John E., Jr.	Belleville.....
on, Norman A.	Princeville.....	Beese, Charles H.	Belleville.....
on, Z. H.	Sparta.....	Bell, Chris.....	Sherrard.....
on, Chas. E.	Belleville.....	Bell, Mark.....	Danville.....
rs, Solomon.....	Girard.....	Bell, Frank.....	Tallula.....
ry, John C.	Belleville.....	Belt, W. H.	Centralla.....
ry, John.....	East Peoria.....	Belts, Joseph E.	Belleville.....
on, Thomas.....	Virden.....	Beltz, A.	Equality.....
Joseph.....	Barclay.....	Bennett, Wm.	Staunton.....
ald, David.....	Freeburg.....	Bennight, J. E.	Pawnee.....
trout, Martin.....	Duncan.....	Bentiv, George.....	Springfield.....
ong, C.	Muncie.....	Benton, Poolie R.	Herrin.....
ong, William C.	Marion.....	Benvenuto, Charles.....	Dawson.....
ft, Chas. C.	Pana.....	Berkley, N. T.	Cuba.....
n, Joseph.....	Murphysboro.....	Bertan, Henry.....	Pana.....
Robert R.	Tilden.....	Bienert, J. O.	Spaulding.....
r, Stephen.....	Clark City.....	Bigelow, A. E.	Spaulding.....
C. P.	Colchester.....	Biggs, W. A.	Herrin.....
William.....	Lenz Station.....	Blake, Albert.....	Streator.....
mry.....	Edwardsville.....	Blackman, Ben.....	Dawson.....
		Blalock, Charles F.	Niantic.....
		Blair, George.....	Streator.....
		Blue, Jessie.....	Norris.....
		Black, Jas. A.	Troy.....
		Bloomberg, Albert.....	Sherrard.....
		Billips, Joseph M.	Kewanee.....
		Boden, J.	Gilchrist.....
		Boettcher, Alfred.....	Freeburg.....
		Boggs, Dow J.	Kewanee.....
		Boggs, E. W.	Galva.....
		Boggs, G. W.	Galva.....
		Bohlen, Henry E.	Mt. Olive.....
		Bohlender, Edward.....	Pekin.....
		Bolton, Mark.....	Gilchrist.....
		Bookstaver, Jos.....	Duquoin.....
		Bonstead, W. P.	Coal City.....
		Boots, James Franklin.....	Germantown.....
		Boring, Frank L.	Odin.....
James F.	Westville.....		
John.....	Braidwood.....		
Robt.	Sunfield.....		
Robert.....	Sparta.....		
Darius N.	Spillertown.....		
F.	Springfield.....		
James E.	Westville.....		
C. H.	Fairmount.....		
Henry.....	Springfield.....		
th, Edward.....	Assumption.....		
ll, H. G.	Kilmundy.....		
ll, Oscar B.	Herrin.....		
C. E.	Duquoin.....		
C. W.	Duquoin.....		
William G.	Tilden.....		
ank.....	Centralla.....		

Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Bostin, William H.	Murphysboro	Chapman, William E.	Salisbury
Boswell, William	Dunfermline	Charpenter, Joseph	Braidwood
Bolles, Wm	Anburn	Cheaney, O.	Breece
Bottomley, B.	Palsley	Chester, David	Springfield
Boul, Leonard	Belleville	Chew, Oliver	Sato
Bourne, Archibald	Marion	Chew, B. R.	Carlisle
Bradbury, R. D.	Carbondale	Chitwood, William H.	Catlin
Bradenburg, F.	Belleville	Chorlton, Thomas	Barkner
Bradley, Simon	Edwardsville	Church, Van L.	Duquoin
Brants, Eli G.	Pekin	Church, William	Marion
Bradley, Wm. P.	Virdeu	Christ, Philip	Wenona
Brasel, S. R.	Centralla	Clark, Corey	Coal City
Bretz, Anton	Germantown	Clark, Christopher	Decatur
Bretz, Matt	Belleville	Clark, C. N.	Duquoin
Bromley, Charles	Coal City	Clark, John	Marquette
Bromley, George, Sr.	Catlin	Clark, John R.	Virdeu
Bromley, George, Jr.	Kellyville	Clark, John	Virdeu
Broughton, Geo. C.	Coffeen	Clark, Quintin	Braidwood
Brother, David	Mt. Pulaski	Clark, Henry L.	Petersburg
Brown, George A.	Iles Junction	Claudin, Josh	Pekin
Brown, H. L.	Duquoin	Clayton, William	Collinsville
Brown, James A.	Springfield	Clayton, D. J.	Johnson City
Brown, Thomas	Moweaqua	Clickner, C. S.	Witt
Brown, Wm. F.	Pontiac	Clifford, Michael	Kewanee
Brown, Wm. H.	Duquoin	Clifton, William H.	Spartan
Brown, Edward E.	Sparta	Cline, John	LaSalle
Brown, William	Murphysboro	Coan, James	Westville
Brown, Marion	Taylorville	Coatney, Grant	Fairmount
Brubeck, John W.	Pawnee	Coburn, W. A.	Princeville
Brueggemann, Michael A.	Belleville	Collinton, Chas	Belleville
Bruggeman, Geo.	Nashville	Collingwood, Wm.	Greenview
Bruce, James	Athens	Collingwood, Albert E.	Springfield
Buckley, Calvin W.	Spartan	Collins, Walter	Mt. Vernon
Bunge, Geo.	Belleville	Collins, John	Birkner
Burbridge, J. W.	Brereton	Colton, George C.	Cartersville
Burgess, Charles E.	Greenview	Colwell, W. P.	Canton
Burke, Riley M.	DeSoto	Compton, James	Colfax
Burkholder, Oliver W.	Dewmaine	Compton, Stephen B.	Sorento
Burlinson, Aaron	Percy	Conley, John	Streator
Burr, Chauncey	Coukerville	Connelly, J. J.	Murphysboro
Bullock, William	Collinsville	Conway, John	Collinsville
Bumgarner, Ross	Ledford	Conway, Michael	Ladd
Burrell, G. K.	Farmington	Cook, G. E.	Hallidayboro
Burrows, William	Williamsville	Cook, Wm. D.	Westville
Butcher, Thomas	Murphysboro	Cook, Tom	Duquoin
Butt, Thomas R.	Litchfield	Cook, John	Kirkville
Byrne, Michael	LaSalle	Cooper, J. H.	Nilwood
		Cornelius, Richard	Fairmount
		Cottle, Elmer	Buffalo
		Cotton, George	Hallidayboro
		Cox, John	Ledford
		Cox, William	Rutland
		Craddock, Robert	Auburn
		Craft, George	Kangley
		Craig, Daniel G.	Danville
		Craig, Daniel	Danville
		Crenshaw, D. B.	Harrisburg
		Crenshaw, J.	Marion
		Crinigan, Barney	LaSalle
		Crocker, Edward	Marquette
		Crouch, Millard F.	Nilwood
		Cryder, James F.	Duquoin
		Cruickshanks, Robert	Middle Grove
		Cruickshanks, John	East Peoria
		Cruickshanks, William A.	East Peoria
		Cruithers, Zina B.	Taylorville
		Cummings, George	Pana
		Cumming, Geo. A. P.	Gardner
		Cumming, Geo. P.	Spartan
		Cummings, Robert W.	Sparta
		Cutler, Frank H.	Princeton
		Cutler, Scott	Duquoin
Cagle, Alfred	Marion	Danzer, Anton	Glen Carbon
Cain, Daniel	Ridgely	Dalhous, Frank C.	Stanton
Cain, Daniel P.	Ridgely	Dalton, Isaac	Yuba City
Cain, John	Ridgely		
Callear, Isaac	Pottstown		
Calliar, Geo. H.	Peoria		
Cameron, Daniel	Pana		
Camp, John R.	Westville		
Campbell, A.	Peoria		
Campbell, Fred	Sorento		
Campbell, T.	Coal City		
Campbell, W. J.	Coal City		
Campbell, Wm. T.	Cable		
Cantrell, H. T.	Farmington		
Carlson, Alexander	Galva		
Carmichael, Thos	Springfield		
Carmichael, John	Berlin		
Carpenter, Chas	Girard		
Carpenter, James T.	Oakwood		
Carr, Robert H.	Freeburg		
Carrington, Eugene	Moweaqua		
Carsell, Hugh	Moweaqua		
Carter, Albert J.	Cutler		
Carter, W. E.	Barclay		
Caudle, James F.	Sorento		
Caulk, Arthur	Sorento		
Cearing, Samuel A.	Springfield		
Chapman, J. B.	Petersburg		

Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Thomas.....	Diamond.....	Dunsmore, Thomas.....	Springfield.....
John W.....	Springfield.....	Dunstedler, William S.....	Edwardsville.....
l, James.....	Belleville.....	Durham, James D.....	Lake Creek.....
ls, Joel.....	Belleville.....	Dyer, Harry.....	Duquoin.....
ns, Thos. J.....	Braceville.....		
tader, William.....	New Athens.....	Easley, H.....	Taylorville.....
R. J.....	Glen Carbon.....	Eaton, A. C.....	Duquoin.....
port, Thomas.....	Harrisburg.....	Eaton, Robert.....	Sunfield.....
B. D.....	Coffeen.....	Easton, George.....	Willisville.....
Carl.....	St John.....	Eccleston, John.....	Streator.....
C. E.....	Divernon.....	Eddy, Evermont.....	Athens.....
Frank.....	St. John.....	Eastman, G. A.....	Girard.....
Jas. A.....	Hillshoro.....	Edwards, George W.....	Springfield.....
Chas. W.....	Edinburg.....	elder, Alexander C.....	Mariassa.....
Jackson.....	Athens.....	Elliott, Clarence.....	Bryant.....
E. E.....	Auburn.....	Elliott, H. H.....	Centralia.....
Frank.....	Lincoln.....	Edwards, Thomas.....	Spring Valley.....
Harry J.....	Duquoin.....	Ekis, Daniel B.....	Springfield.....
James P.....	Belleville.....	Ekis, Henry.....	Ridgely.....
John W.....	Lake Creek.....	Emans, Ransom R.....	Farmington.....
John.....	Belleville.....	Ellis, Albert.....	Cable.....
L. D.....	Coffeen.....	Elemendorf, E.....	Belleville.....
Thomas.....	Belleville.....	Elmore, V. M.....	Coffeen.....
Hardin.....	Eldorado.....	Emery, H. W.....	Greenville.....
Wm. H.....	Fairbury.....	English, Thomas.....	Streator.....
Charles A.....	Belleville.....	Erismann, Jacob D.....	Niantic.....
n, John G.....	St. John.....	Erismann, Jesse.....	Niantic.....
n, Joseph.....	Sherrard.....	Estes, W. B.....	Dunville.....
n, Van C.....	Spring Valley.....	Evans, Albert.....	Glen Carbon.....
n, John C.....	Streator.....	Evans, Roderick B.....	Girard.....
enj F.....	Peoria.....	Evans, Thomas.....	Spaulding.....
Robert.....	Belleville.....	Evans, C. L.....	Virgen.....
l, L. B.....	Tallula.....	Evans, Price.....	Bissell.....
l, William S.....	Greenview.....	Evans, W. E.....	Danville.....
her, Thomas.....	Elmwood.....	Evans, Wm. L.....	Eldorado.....
r, William.....	Oglesby.....	Eyerly, John C.....	Canton.....
enry.....	Glen Carbon.....	Eytman, Frank.....	Spring Valley.....
ett, Thomas.....	Mt. Vernon.....	Eydman, Henry.....	Coulterville.....
re, Frank.....	Springfield.....	Eynon, David.....	Duquoin.....
s, Robert E.....	Willaville.....		
y, William.....	Westville.....	Fabry, A.....	Braceville.....
sey, Columbus.....	Harrisburg.....	Fabay, John.....	Decatur.....
William.....	Diamond.....	Falkenstein, George A.....	Astoria.....
gton, Walter.....	Herrin.....	Farmer, Frank.....	Bloomington.....
n, O. N.....	Coffeen.....	Farley, James.....	Riverton.....
n, William.....	Petersburg.....	Farwood, L. C.....	Springfield.....
, Francis.....	Clark City.....	Fenton, M. H.....	Streator.....
Robert.....	Sunfield.....	Ferguson, J. B.....	Divernon.....
John.....	Auburn.....	Ferguson, John J.....	Spring Valley.....
William.....	Auburn.....	Ferren, Edward.....	Barclay.....
Frederick W.....	Springfield.....	Ferris, W. H.....	Marquette.....
George.....	Wenona.....	Fillingham, J. A.....	Canton.....
Samuel H.....	Pottstown.....	Finnigan, Thomas J.....	Springfield.....
ll, Edward J.....	Decatur.....	Finegan, Wm. H.....	Springfield.....
l, E. W.....	Pontiac.....	Fischer, Phillip.....	Lenzburg.....
ng, Fred.....	Mt. Olive.....	Fisher, George.....	Staunton.....
John.....	LaSalle.....	Fisher, Patrick.....	Kangley.....
ason, J. W. Jr.....	Dunfermline.....	Fitzsimmons, Maurice.....	Peru.....
illy, J.....	Springfield.....	Flesher, A.....	Taylorville.....
l, E. J.....	Pontiac.....	Flesher, O.....	Clay City.....
erty, Joseph.....	Taylorville.....	Fletcher, Henry A.....	Ladd.....
C. W.....	Glen Carbon.....	Fletcher, I. W.....	Springfield.....
r, John.....	Auburn.....	Fogerson, Andrew.....	Central City.....
ng, Ira F.....	Springfield.....	Foot, Charles.....	Westville.....
ng, Robert D.....	Bartonville.....	Foot, Wm.....	Westville.....
l, L.....	Cuba.....	Forister, Robert.....	Murphysboro.....
el, Fred W.....	Taylorville.....	Forister, Wm.....	Murphysboro.....
William.....	Streator.....	Fortney, John W.....	Kinmundy.....
John.....	Troy.....	Foster, Albert.....	Elmwood.....
an, L. H.....	Blue Mound.....	Foster, A. J.....	Litchfield.....
Glenn E.....	Collinsville.....	Fox, Frank L.....	Assumption.....
B. A.....	Collinsville.....	Fox, Fred.....	Middle Grove.....
n, J. R.....	LaSalle.....	Fox, Wm.....	Taylorville.....
L. A.....	Duquoin.....		
William L.....	Clark City.....		

Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Fox, James B.	LaSalle	Greaves, Walter.	Ladd
Fox, Thomas.	Lincoln	Green, Joseph.	Canton
Frain, Austin.	Ridge Prairie	Green, Daniel.	Braidwood
Frankland, Tim.	Streator	Green, Roy.	Wilmington
Freeman, M. F.	Shelbyville	Green, R. A.	Coffeen
Freeman, E. F.	Duquoin	Green, Thomas.	Marianna
Frick, U. B.	Lake Creek	Green, Wm. H.	Streator
Friend, J. W.	Collinsville	Greenhalgh, James.	Hillsboro
Frier, Jacob.	Ormsby	Greenhalgh, William.	Hillsboro
Friend, E. A.	Collinsville	Greenman, Martin.	Pontiac
Friend, Wm. L.	Collinsville	Greener, George.	Greenview
Friesland O. M.	Salisbury	Grierson, John.	Streator
Fritz, Gustav.	Breese	Grimmett, Chas. C.	Girard
Fritz, William.	Lebanon	Grice, Albert.	Kewanee
Fry, D. W.	Clark City	Griever, David.	Birkner
Ferguson, S. P.	Strasburg	Griever, James.	Birkner
Fuston, D. H.	Murphysboro	Griffin, John O.	Kewanee
		Groom, Alexander.	Belleville
		Groom, John, Sr.	Belleville
		Groom, James.	Belleville
		Groom, William.	Belleville
		Groom, John.	Belleville
		Groover, Harmon M.	Canton
		Grubb, Michael.	Riverton
		Geistdorfer, Fred.	DeSoto
		Guy, D. F.	Springfield
		Gurick Howard.	Litchfield
		Gurick, L. E.	Litchfield
		Guthrie, T. E. B.	Marianna
Gahl, Fr d T.	St. John	Hackett, Gwen.	Spaulding
Gallagher, Geo.	Lebanon	Haddick, Wm. L.	Sherrard
Galutia, C. M.	Cartersville	Haensel, Edward.	Lenzburg
Gamber, H. H.	Ziegler	Haensel, David.	Lenzburg
Gandy, James W.	Peoria	Hagler, Charles.	Fredonia
Gaskins, Asa.	Harrisburg	Hale, Wm. T.	Troy
Gately, Bernard.	Diamond	Hale, James.	Dunfermline
Gately, James.	Seatonville	Haley, Edward.	Kinmundy
Gannell, George W.	Herrin	Hall, G. R.	Colchester
Gates, Wm. S.	Kankakee	Hall, G. R.	Nilwood
Gallagher, Peter.	Clark City	Hamilton, Chas. E.	Cinton
Gaughan, James.	Braidwood	Hamilton, James H.	Spartan
Geer, Benjamin H.	Wolcott	Hampton, N. R.	Murphysboro
Geer, U. S.	Pekin	Hand, P. L.	Peoria
Geer, Chauncy N.	Wolcott	Hanvey, John.	Collinsville
Galmour, Allan.	Diamond	Handle, Ledlie.	Taylorville
Gerner, Fred.	Danville	Hansenstein, J. W.	Willsville
Gerjetta, Harry.	Athens	Hanes, W. J.	Salem
Geyer, J. A.	Wanlock	Hankins, John W.	Sorento
Gibson, John.	Sandoval	Hanson, William.	O'Fallen
Gibson, J. W.	Sherrard	Hanvey, John J.	Collinsville
Gibson, Henry.	Coal City	Hanvey, Robert.	Collinsville
Gilchrist, H. M.	Gilchrist	Hanvey, William.	Collinsville
Gilmore, J. E.	Hillsboro	Haddicks, Frederick H.	Cable
Gilson, R. W.	Danville	Happer, Frank.	Edwardsville
Girfen, Henry.	Troy	Harding, Enos.	Birkner
Glacken, Hugh.	Coal City	Hardy, Warren.	Pawnee
Gladdens, Wm.	Coal City	Harms, Helke.	Petersburg
Gladson, E.	Duquoin	Harper, Oscar.	Lebanon
Gladson, F.	Duquoin	Hardy, Thomas.	Springfield
Glass, Reuben.	Edwardsville	Hardy, Thos. W.	Dawson
Glennon, Philip.	Williamsville	Harms, Will J.	Petersburg
Glennon, John.	Riverton	Harmon, M. W.	Oglesby
Glover, Frederick.	Peoria	Harner, Elmer.	Decatur
Goalby, Arthur A.	Percy	Harris, J. W.	Springfield
Goalby, B. F.	Percy	Harris, W. C.	Nilwood
Goalby, Frank H.	Stookey	Hartman, Frank.	Murphysboro
Goalby, W. A.	Belleville	Hartman, John F.	Murphysboro
Goddard, Wm. H.	Spillertown	Hartwell, A. Lincoln.	Marion
Goddard, W. L.	Lake Creek	Hartwell, J.	Marion
Goforth, Wm.	Pana	Hartwell, Roy.	Marion
Gollher, H.	Herrin	Harvey, M. F.	Duquoin
Gordon, E. J.	Petersburg	Hartman, W. H.	Coulterville
Gordon, Alex B.	O'Fallen	Harvey, Wm. R.	Wanlock
Gorham, A. B.	Lincoln	Haughanant, John D.	Spring Valley
Gorman, J.	New Douglas	Havel, Joseph.	French Village
Gottschalk, Fred.	Springfield		
Gould, George.	Sato		
Gowin, Curtis.	Green Ridge		
Gowin, Frank.	Green Ridge		
Grace, John T.	Kewanee		
Graham, L. A.	Bloomington		
Graham, William.	Springfield		
Graden, Orville B.	Taylorville		
Graham, Reuben.	Virden		
Grant, Lewis.	Pekin		
Gray, Thomas.	Springfield		
Gray, Chas. H.	Springfield		

Certificates of Competency—Continued.

Name.	Postoffice	Name.	Postoffice
er, J. O.	Pana.	Jackson, William	Minonk
rh, William	Sandoval	Jacobs, George H.	Elmwood
, Arthur H.	Danville	Jacobs, James M.	Moweaqua
, James	Bloomington	Jacobs, J. P.	Bartonville
r, George L.	Murphysboro	Jacobs, William	Murphysboro
John S.	Assumption	Jacobs, W., Sr.	Peoria
m, Wm.	Riverton	Jamison, John	Petersburg
nger, F. C.	Mt. Olive	Jeffrey, James	Marissa
ick, C. W.	O'Fallon	Jeffrey, John	Belleville
gan, John F.	Wanlock	Jenkins, John L.	Danville
, Philip	Kewanee	Jenkins, T. E.	Athens
, John J.	Greenview	Jenks, William	Bloomington
rd, George	Belleville	Johnson, James J.	Taylorville
r, Walter	Edwardsville	Johnson, John W.	Birkner
an, John	Belleville	Johnson, J. S.	Duquoin
ig, George P.	Odin	Johnson, Robert	Pawnee
ig, J. P.	Staunton	Johnson, S.	St. John
aw, A. F.	Abingdon	Johnson, W. C.	Marion
tt, John	Ridgely	Johnson, William H.	Superior
Edward B.	Morrisonville	Johnson, William L.	Spring Valley
e, Lawrence	Wyoming	Johnson, Harmon	Middletown
d, James	St. David	Johnston, Joseph R.	Pontiac
y, John	Dunfermline	Johnstone, Thomas	Pontiac
, C.	Marissa	Johnston, Thomas B.	Freeburg
, W.	Pontiac	Jones, George	Belleville
Emberson	Westville	Jones, Henry E.	Staunton
rd, George	St. David	Jones, John P.	Marissa
s, Henry	Astoria	Jones, Jonathan, Jr.	Marissa
, P.	Toluca	Jones, Verning L.	Barclay
nan, Milo	Herrio	Jones, Jonathan, Sr.	Marissa
s, Francis E.	Centralia	Jones, Joseph	Staunton
son, Edward	Murphysboro	Jones, Logan	Marissa
m, Moses	Smithboro	Jones, Felix E.	Barclay
er, Charles	Glen Carbon	Jones, Thomas	Muncie
s, Frank	Springfield	Jones, William	Marissa
rd, Arthur J.	Mt. Olive	Jones, William	Braceville
rd, Miner	Cartersville	Jones, John	Grape Creek
amp, Geo	Breese	Jones, James W.	Pana
er, George	Glen Carbon	Jones, John	Marissa
er, H. H.	Gillespie	Jones, R. T.	Kewanee
er, G.	Glen Carbon	Jordan, Robert	Streator
er, Shelby	Cylin	Judd, Charles E.	Edwardsville
ll, L. R.	Harrisburg		
n, William T.	Hornsby	Kalebaugh, Clinton H.	Astoria
Alvin	Taylorville	Karnes, Geo. R.	Galatia
iger, J.	Freeburg	Karney, Emory O.	Hallidayboro
, C. O.	St. John	Kasselman, Frank H.	Worden
rd, S. J.	Hanna City	Keating, Edward F.	Streator
, Chas.	Streator	Keating, Richard	Streator
rd, G. W.	Springfield	Kelley, James D.	Carbon Hill
rd, L. W.	Springfield	Kelley, Martin	Toluca
L.	Canton	Kelley, Robert D.	Carbon Hill
ans, R. D.	Streator	Kelly, Charles	Streator
ins, William	Murphysboro	Kelly, N.	Petersburg
ins, J. A.	Streator	Kelly, George	Worden
es, William A.	Springfield	Kelly, Richard V.	Cantral
es, John C.	Springfield	Kemper, Christian	Belleville
es, B. B.	Greenview	Kenady, Fred A.	Cambridge
Lee	Murphysboro	Kenaday, Perry	Cambridge
nel, John	Lincoln	Kennedy, W. J.	Edwardsville
hrey, Chas.	Edinburg	Kearney, John	Peoria
hrey, W. F.	Edinburg	Kerchner, Howard	Belleville
n, Robert	Sparta	Kenner, John	Belleville
an, Jacob	Springfield	Kerns, Samuel J.	Springfield
		Kessick, Chas. W.	Decatur
		Kester, Charles E.	Raymond
Wm. A.	Duquoin	Kidd, Alonzo	Farmington
orge M.	Marion	Killide, T. C.	Farmington
t, Orle W.	Glen Carbon	Killinger, C.	Collinsville
, A.	Glen Carbon	Killinger, Harry	Germanatown
, Alvin	Gillespie	Killinger, John	Collinsville
Byron	Pana	Kimball, Joel L.	Hillsboro
John	Gillespie	Kimber, John	Ladd
Robert K.	Pontiac	King, John	Cartersville
e, George	Roseboro	Kingerfur, Wm.	Belleville
, Charles	Sparta		

Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Kinghorn, John	Staunton	McCormack, James J.	Springfield
King, Alexander, Sr.	Cartersville	McColley, G. I.	Pawnee
King, Alexander, Jr.	Cartersville	McCunsky, Tobias	Assumption
King, L. B.	Smithboro	McCurdy, J.	Taylorville
King, Charles	Collinsville	McDonald, John	Springfield
Kincannon, John	St. John	McDonald, W. H.	Pana
Kirby, Thomas, Jr.	Peru	McDonald, William J.	Percy
Kirshner, Frank	Belleville	McDonald, Peter G.	Carbon Hill
Klaus, Louis	Belleville	McDonald, Frank R.	Athens
Klingenfus, Edward	Belleville	McFarland, F. E.	Murphysboro
Klinkner, Frank	Colfax	McGittigan, Thomas	Pana
Knapp, Enoch	Assumption	McGowan, Edward	Lincoln
Koenig, George	LaSalle	McGowan, J. R.	Herrins Prairie
Koombs, James	Marion	McIntyre, A. D.	Sparta
Krully, Andrew	Braceville	McKean, Andrew	Coal City
		McKean, John	Carbon Hill
		McKean, Isaac	Coal City
		McKearnan, J. B.	Athens
		McKee, C. L.	Lake Creek
		McKeerman, John	Belleville
		McLaughlan, F. T.	Carbon Hill
		McLaughlin, George	Carbon Hill
		McLean, J.	Pleasant Plains
		McMillin, W. M.	Danville
		McMurtry, P.	Viriden
		McNail, Albert	Mt. Vernon
		McPherson, James	Murphysboro
		McQuade, J.	Clark City
		McNeil, S.	Coulterville
		McVey, Frank W.	Roanoke
		McVicar, Donald	LaSalle
		Marland, James	Wenona
		Marland, William	Spanland
		Marie, John E.	Pottstown
		Marshall, Robert	Murphysboro
		Martin, Benjamin	Toluca
		Martin, N. W.	Marion
		Marxer, Louis J.	Millstadt
		Marxer, Wm. J.	Millstadt
		Massie, J. T.	Belleville
		Mason, E.	Winchester
		Mathis, George	Duquoin
		Matthews, C.	Willisville
		Maule, William	Belleville
		Maxwell, Fred	Peoria
		Mayor, A. W.	Duquoin
		Mayor, J. W.	Duquoin
		Meadows, William	Ledford
		Meachels, Edward	Belleville
		Meithe, Wm.	Georgetown
		Melvin, Elmer	Tamaroa
		Meng, George W.	Freeburg
		Meridith, Arthur R.	Troy
		Mercer, L. W.	St. John
		Messersmith, Fred	Athens
		Messenger, Joseph	Williamsville
		Meyer, Henry	Trenton
		Myer, John	Staunton
		Michaels, Otto L.	Belleville
		Miller, A. J. F.	Centralia
		Miller, Hugh	Braceville
		Miller, James C.	Tamaroa
		Miller, James	Alma
		Miller, T. H.	Raymond
		Miller, William C.	Rentchler
		Mills, Thomas S.	Coal City
		Minzer, Robert A.	Spaulding
		Mitchell, E. R.	Farmington
		Mize, Walter	Pana
		Mockbee, Luther	Niantic
		Mohm, E.	Peoria
		Morehouse, Charles L.	Danville
		Mosatt, R. F.	Cutler
		Mosatt, John	So. Wilmington
		Molash, A.	Springfield
		Monaghan, James	Gillespie
		Moor, F. J. W.	Springfield
Lambert, George W.	LaSalle		
Lambert, Wm.	Middletown		
Lanham, John W.	Danville		
Larkin, James G.	Athens		
Laughrey, Jonathan P.	Carbon Cliff		
Lavallier, U. S.	Chenoa		
Lawson, George	Cable		
Layne, J. W.	DeSoto		
Ledbetter, George	Sorento		
Leek, Carroll	Hallidayboro		
Leeper, C. W.	Equality		
Lehman, Phillip	Lebanon		
Lemons, J. L.	Girard		
Leslie, G. Lutton	Rutland		
Leslie, George	Gardner		
Leslie, N. B.	Braidwood		
Lewis, Alvin	Catlin		
Lewis, James	Canton		
Lindsey, J.	Oglesby		
Lindskey, Martin H.	Streator		
Lindstrom, Oscar	Sharrard		
Linsky, James	Braidwood		
Linsky, Patrick J.	Braidwood		
Little, G. E.	Edwardsville		
Little, Peter	Peoria		
Little, Thomas	Murphysboro		
Lockhart, Lewis	Niantic		
Lockie, G. O.	Cartersville		
Lockie, William	Cartersville		
Loding, Charles A.	Loding		
Loebel, Frank	Trenton		
Loeffler, Adolph E.	O'Fallon		
Long, Noah B.	Pontiac		
Long, Edward	Norris		
Lozin, P.	Lincoln		
Lucht, M. F.	Mt. Olive		
Lucey, Michael	Ridgely		
Lundeen, Frank W.	Galva		
Lundy, J. P.	Mt. Pulaski		
Lundley, Ralph	Ridge Prairie		
Lynch, M.	Herrin		
Lyons, A.	Riverton		
Maasburg, H. C.	Pinckneyville		
Mader, Charles H.	Staunton		
Madden, Harvey	Danville		
Manley, Leo	Coffeen		
Mainwaring, James	Braceville		
Mair, Max	Lebanon		
Malcolm, Wm. J.	Braceville		
Maltby, Edward	Braidwood		
McAddams, John W.	Percy		
McAllister, Thomas	Hallidayboro		
McCann, David	Lincoln		
McCarthy, John	Lincoln		
McCartney, C. F.	Alexis		
McCauley, Aaron	Streator		
McClelland, A. J.	Cuba		
McConachie, Ed	Auburn		

Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
A.	Braceville	Otte, John	Collinsville
John A.	Christopher	Outhouse, John	Johnson City
A. D.	Elmwood		
John	Belleville		
n, Charley	Eldorado	Paddock, W. D.	Pana
n, John C.	Springfield	Padden, J. W.	Spring Valley
n, William	Carbon Hill	Pair, J. H.	Wilhelmsville
Frank	Peoria	Parks, James	Streator
A.	Duquoin	Parker, Joseph	Murphysboro
J.	Springfield	Patterson, R. J.	Murphysboro
John W.	Divernon	Patterson, T.	Gillespie
George	Belleville	Patterson, W. M.	St. Louis, Mo.
James H.	Nashville	Patterson, Bert	Westville
James	Mt. Olive	Pankey, James M.	Equality
William	Mt. Olive	Patton, Frank L.	Springfield
Wm.	Harrisburg	Pearce, H. L.	Cable
ey, Thomas	Lebanon	Peecher, David	Braidwood
on, Archie	Oglesby	Peet, Chas.	Marseilles
Joseph L.	Edinburg	Pemberton, C. H.	Duquoin
Jacob W.	Rentchler	Perkes, Ephraim	Soperville
ney, Christopher	Edwards	Petrea, J. W.	Vadlercook
nev, A. T.	Glenburn	Peters, Alonzo L.	Peoria
Alfred L.	Belleville	Petro, Mike	Braceville
Joseph L.	Belleville	Pendergast, John	Centralia
y, Robert T.	Norris	Perrina, George H.	Hertin
y, Edward	Farmington	Peyla, George	Braidwood
y, James F.	Springfield	Pierson, Chas.	Harrisburg
y, Archie	Trenton	Pierson, Joe	Harrisburg
y, Robert	Coal City	Pierson, Thomas	Harrisburg
y, Christopher C.	Gillespie	Phillips, J. M.	Athens
y, Hugh	Nashville	Pinkerton, John G.	Hanna City
y, Joseph P.	Rosboro	Piper, James	Worden
Henry	Minonk	Piper, Oliver G.	Staunton
Peter W.	Carlinville	Piper, Joseph	Glen Carbon
William	Decatur	Pircher, Peter P.	Sandoval
		Pitra, Frank	Odin
		Putt, Joseph	Trenton
Jake	Springfield	Platt, J. A.	Springfield
e, A. J.	Herrin	Plenty, Geo. R.	Canton
Ambrose	Carlinville	Plimmer, Benjamin	Streator
John H.	Carterville	Plocker, Henry	Pana
am, Daniel	Breese	Pointer, Edward H.	Belleville
y, Olie K.	Norris	Poole, Edward A.	Lake Creek
m, James W.	Sparta	Poole, Arthur H.	Murphysboro
n, Andrew V.	Centralia	Powell, Edwin	Caseyville
el, Fred H.	Caseyville	Powell, F. C.	Seatonville
l, Leroy	Spartan	Prescott, G. A.	Centralia
er, James	Belleville	Price, Thomas	Spaulding
ls, John	Athens	Price, Daniel D.	Redlich
ls, E. K.	Coffeen	Prickett, Thomas M.	Niantic
ls, F. B.	Coal Valley	Pritchard, H. C.	Lewistown
erson, James K.	Colfax	Pruett, J. M.	Harrisburg
William	Belleville	Pugh, Daniel	St. John
Adolph	Belleville	Pullen, R. H.	Sorento
rg, Peter	Galva	Pulver, R. H.	Centralia
rn, Frank	Galva		
l, James J.	Murphysboro	Qualls, Nevall	Dubois
l, Floyd	Duquoin	Quick, A. T.	Sato
n, William	Oglesby	Quick, A. S. H.	Sato
n, Victor	Breerton	Quick, Seibert T.	Pinckneyville
et, Thomas M.	Springfield	Quigley, Henry	Halidayboro
		Quinn, Joseph	Springfield
n, Terry	Decatur	Raber, F. C.	Troy
nell, Michael	Decatur	Raber, Louis	Collinsville
l, William	Rentchler	Radford, William T.	Bloomington
l, Samuel	Mascoutah	Rafter, Michael	Marquette
er, J.	Odin	Rafter, James P.	Springfield
August	Streator	Ralsbeck, John	Braceville
l, James	Streator	Raker, Truman	Rutland
icko, Geo.	Braceville	Randle, Caleb	Belleville
Frederick	Mt. Olive	Randle, William	Freeburg
y, Wilbur	Grape Creek	Rasor, J. D.	Staunton
R.	Mt. Vernon	Rasch, Aug. F.	Trenton
on R.	Danville	Ratcliffe, A.	Sheffield
e, Benjamin	Streator		
Glen L.	Streator		

Certificates of Competency—Continued.

Name.	Postoffice	Name.	Postoffice
Rawson, Grant I.	Belleville	Sands, Robert K.	Marion
Rawlings, Alex. N.	Cantrall	Sangrelet, Charles	Litchfield
Ray, Hugh	Wanlock	Savage, Richard	Clarke City
Reagan, William	Mt. Olive	Sawyer, V.	Staunton
Reatz, Hans	Lincoln	Sawyers, Joseph	Coal City
Reading, Curtis	Niantic	Saylor, C. F.	Murphysboro
Record, L. A.	Rutland	Schafer, Fred	Belleville
Reece, John U.	Collinsville	Shannessy, Thos.	Bradwood
Reed, John	Herrin	Scheffler, Julius	Pekin
Reed, W. J.	Danville	Schramm, Charles	Belleville
Reetz, Herman	Lincoln	Scharnack, Frank	Edwardsville
Reeger, John C.	Pinckneyville	Schmacker, Herman	Glen Carbon
Reese, William M.	Knox	Schockraft, L.	Cartersville
Redden, Jas. W.	Dewmaine	Schroeder, Charles	Mt. Olive
Reid, Robert	Moweaqua	Schroeder, Henry	Mt. Olive
Reid, Archibald	Springfield	Schnessel, Conrad	Breese
Reid, Andrew B.	Duquoin	Schulte, Fritz	Clinton
Reiddinger, Peter M.	Peoria	Schumacher, Chas.	Marion
Reidberger, Wm. J.	Onbois	Schumm, Fred W.	Gardner
Reilly, Henry	Toluca	Schuster, John	Marion
Reimann, John	Belleville	Scott, J. W.	Colchester
Remelius, Jacob	O'Fallon	Seurrah, Castling R.	Braceville
Rennard, Jas. Ed.	Grape Creek	Secor, Fred D.	Odin
Reichman, George	Trenton	Seeman, John C.	Cantrall
Rennie, Andrew	Dunfermline	Seeman, George A.	Cantrall
Rennie, James	Dunfermline	Seidel, Fred	Kinmundy
Renter, August	Mt. Olive	Seiler, William	Ormsby
Reppinger, H.	Belleville	Sells, Chas. B.	Colfax
Reyabek, Joseph	Glen Carbon	Seymour, John	Colfax
Rhodes, Almon R.	Chenoa	Shafer, James M.	Girard
Rhodes, Ashley	Taylorville	Shanklin, A. S.	Cartersville
Rice, C. D.	Harrisburg	Sharp, John H.	Spring Valley
Rice, James M.	Sunfield	Sheehan, Peter	Athens
Rice, Moses	Murphysboro	Shelenger, S.	Willisville
Richards, John T.	Staunton	Shepardson, Isaac V.	Fairmont
Richart, Lee	Moweaqua	Shroyer, A. D.	Lincoln
Richmond, John E.	Coal City	Shinn, Charles	Springfield
Riland, Frances F.	Harrisburg	Shriver, P. A.	Kinmundy
Riley, B. J.	Cantrall	Shuler, H. M.	Gilchrist
Riley, Michael	Grape Creek	Siddall, Herbert	Belleville
Rippitoe, J. G.	Colchester	Siddall, John	Belleville
Ritchie, John	Trenton	Siddall, Levi	Belleville
Roach, Samuel	Tamaroa	Simmons, H.	Murphysboro
Roberts, Charles	LaSalle	Sinclair, Guy S.	Glen Carbon
Roberts, Edward J.	Kangley	Silva, Thomas S.	Carbon Cliff
Roberts, Frank L.	Lake Creek	Simpkins, Homer	Streator
Roberts, John	Litchfield	Sizemore, Wm. I.	Cartersville
Roberts, Jonathan	Willisville	Slocum, Clarence	Gilchrist
Roberts, Erwin	Johnson City	Smith, Chas. H.	Seneca
Roberts, W. P.	Johnson City	Smith, Edward J.	Collinsville
Robinson, Charles	Wenona	Smith, George W.	Virginia
Robinson, J. A.	Riverton	Smith, George W.	St. Louis, Mo.
Robinson, William A.	Toluca	Smith, P.	Danville
Rockey, Charles	Peoria	Smith, S.	Marseilles
Rodgers, Edward	Murphysboro	Smith, Robert	Collinsville
Rodgers, Geo. R.	Sunfield	Smith, Firth	Murphysboro
Rodgers, Finkel	Murphysboro	Smithmeyer, Anton	Lincoln
Rode, Henry	Sherrard	Smith C. M.	Danville
Rohe, Herman J.	Alexia	Sneddon, John	O'Fallon
Robour, Michael	Grape Creek	Sneddon, Richard	Canlin
Rosan, Ben	Duquoin	Sneyd, James	Westville
Rowland, Samuel J.	Divernon	Snowdon, Wm.	Georgetown
Rowland, Sidney G.	Belleville	Snyder, Arthur	Danville
Roy, A. I.	Collinsville	Sowerby, Miles	Willisville
Royster, Richard	Peoria	Sparks, Emery C.	Ellisville
Rude Edmund	DeSota	Sparks, J. L.	Mt. Vernon
Rublander, E. H.	Mt. Olive	Sparling, Chas.	Seatonville
Rumell, Zenas	Pana	Sparling, Henry	Seatonville
Russell, Guy	Harrisburg	Spiller, Elton	Halldayboro
Rutliff, Isaac	Ashland	Spire, Albert	Braceville
Ryan, Lawrence	Decatur	Spence, Elmer	Farmington
		Sprout, J. W.	Pontiac
		Stanfel, Martin	Toluca
		Stanford, J. W.	Pana
Sadler, George	Murphysboro	Stanforth, F.	Wanlock
Sallade, George	Chatham	Stange, Fred	Marquette
Sallade, J. E.	Chatham	Stanton, Wm. E.	Colchester
Sampson, Jos. M.	Petersburg		

Certificates of Competency—Continued.

Name.	Postoffice	Name.	Postoffice
Edgar	Missionfield.	Wagoner, Albert H	Johnson City
Robert, Sr	Danville	Waggoner, Wm F.	Raymond
H	Salem	Wagmore, James	Assumption
mer, Theodore	Lenzburg	Waldron, Thom.	Fredonia
C H	Spring Valley	Walker, James	Spaulding
L A	Mt Vernon	Walker, John H	Mt. Olive
James C	Carton Hill	Walker, Joshua	Mt. Olive
Peter	Murphysboro	Wallace, Henry G	East Peoria
yer, E.	Staunton	Waller, Wm F.	Marion
I	Carterville	Waters, Robert	Springfield
E	Buffalo	Walford, Noah	Hillsboro
rank	Lebanon	Wallock, Chas	Bruceville
athan	Carterville	Walsh, James D	Auburn
dwin	Worden	Walton, A F	LaSalle
M	Springfield	Walton, Hugh	Norris
E	Rutland	Walton, Patrick	Bureau Junction
G W	Bloomington	Walton, Joseph	St David
m	Belleville	Wanting, T J	Pottstown
hn D.	Pinckneyville	Wandless, W.S.	Collinsville
Wm	Taylorville	Warner, Richard	Troy
Vm.	Worden	Warner, M	Farmington
arl	Springfield	Warner, Andrew	Colfax
enry H	Athens	Wassell, Anton	Bruceville
George B.	Westville	Watson, Frank	Springfield
hn.	Ladd	Watson, M	Riverton
S.	Harrisburg	Wattawa, Joseph	Belleville
Alexander H	Danville	Watts, T. J.	Linwood
red.	Toluca	Weaver, Elmer	Dunfermline
		Webb, Albert M.	Greeview
		Webber, J. S	Rutland
ames	Edwards	Welch, Benjamin	Harrisburg
Edwin	Trenton	Wente, Frank	Nashville
Aack	Westville	Wersen, W L	Springfield
M W.	Tamora	West, W H	Murphysboro
ineon	Bissell	West, Ollie	Herrin
A. P.	Johnson City	Wesner, Ephraim	Streator
C N	Taylorville	Westwood, Albert	Belleville
nest	Mt Olive	Westwood, Edward	Birkner
James C.	Springfield	Westwood, F T	Belleville
F	Litchfield	Weymouth, John	Springfield
George L.	Raymond	Wheatley, John W.	Coal City
Henry	Rushville	White, Korah	Tower Hill
	Coal City	White, Henry	Riverton
Fred	Rutland	White, Perry J	Springfield
Charles	Desoto	White, Robert	Lincoln
G E	DeSoto	White, Booker	Catlin
Jerry, Hiram A	Duquoin	Wickersham, J. R.	Lake Creek
on, Wm H	Hinrod	Wilkins, W. P.	Springfield
on, Fred	Westville	Williams, Andrew D	Sandoval
on, J H	Marion	Williams, Huston	Spaulding
E A	Marion	Williams, John	Spring Valley
s, Irvin F	Wyoming	Williams, Thomas E.	St. David
Abel	Staunton	Williams, Watson	Virden
B.	Tower Hill	Williams, Wm	Duquoin
J L	Danville	Williams, Wm H	Sherrard
obert	Springfield	Williams, Wm Hampton	Murphysboro
lonzo.	Pana	Williams, John F	Eldorado
Vm	Birkner	Williamson, Henry	Coal City
ng, Chas	Carterville	Williamson, Wm	Coal City
ng, Geo.	Carterville	Wills, Henry E	Harrisburg
ison, Sinclair	Centralia	Wilson, David	Birkner
Geo W.	Lewistown	Wilson, Wm H	Middle Grove
Edward	Coal Valley	Wilson, James	Springfield
		Windsor, Samuel	Norris
		Windsor, Robt.	Norris
r, Geo W	Centralia	Wines, E. R	Springfield
t, L E.	Hartlay	Wohlert, S. Henry	Mt. Olive
P Oliver	Kimmunity	Wolschlog, Geo J	Peoria
John	McLean	Wood, Daniel A.	Colfax
e, Chas	Cable	Woodward, J R.	Streator
Wm M	Edwards	Woolbright, D A.	Centralia
r, Perry E	Taylorville	Woodworth, Peter	Pekin
James	LaSalle	Worms, Joseph	Birkner
in, Max	Glen Carbon	Wornack, Chas A	Glen Carbon
		Wright, Thos C.	Belleville
		Wright, Wm. M.	Pana
		Wrigley, James	Collinsville
o H	Johnson City		

Certificates of Competency—Concluded.

Name.	Postoffice.	Name.	Postoffice.
Yates, John.....	DeSoto.....	Younghusband, L.....	Coal City.....
Yates, Wm.	Coal City.....	Youngquist, Frank.....	Sherrard.....
Yebling, Fred H.....	Duquoin		
Young, J. K.....	Girard		
Young, James G.....	Gardner	Zeigler, John.....	Iles Junction.....
Young, Robert.....	LaSalle.....	Zerban, W. F.....	Belleville.....
Young, A. O. K.....	Girard	Zink, Louis.....	Belleville.....
Young, Peter J.....	Springfield	Zink, Peter A.....	Belleville.....
Young, W. L.....	Duquoin	Zuriker, Lorenz.....	Cable.....

HOISTING ENGINEERS HOLDING CERTIFICATES OF SERVICE.

Name.	Postoffice.	Name.	Postoffice.
Ackerman, Jacob.....	Belleville.....	Egerton, J. O.	Colchester.....
Allen, William H.....	Collinsville.....	Ekis, Daniel B.....	Springfield.....
Anthony, John C.....	Belleville.....	Essex, George M.....	Soperville.....
		Evans, Albert.....	Glen Carbon
		Everett, Charles	Rutland.....
Baiwir, John C.....	Braidwood.....		
Banker, Henry.....	Ridge Prairie.....	Fischer, George	Staunton.....
Bath, Ameston.....	Cuba.....	Fisher, Patrick.....	Kangley.....
Beeby, William.....	Springfield.....		
Bell, George E.....	Canton.....		
Benvenuto, Charles.....	Toluca.....	Gaudy, James W.....	Peoria
Birkley, N. T.....	Cuba.....	Glasford, Oliver	Orchard Mines
Blue, Jesse.....	Norris.....	Glenam, Philip	Williamsville.....
Bonick, Andrew.....	Gilchrist	Graham, J. A.....	Nilwood
Bowman, George W.....	Yates City.....	Graham, Reuben	Virden.....
Brown, G. A.....	Iles Junction.....	Grattendick, Fred	Okawville
Brubeck, J. W.....	Pawnee.....	Greaves, Allen	Nashville
Brumann, Albert.....	Springfield.....	Grey, David F.....	Springfield
		Grierson, John	Streator
Campbell, Albert.....	Pottstown.....	Grimshaw, Joseph	LaSalle
Campbell, James.....	Coal City.....	Groom, John	Belleville.....
Carlson, Alexander.....	Galva.....		
Carrington, Eugene.....	Moweaqua.....	Haas, Jacob.....	Millstadt.....
Charter, Albert J.....	Pinckneyville	Hackett, Owen	Spaulding
Chitwood, William.....	Glenburn.....	Hagler, Charles	Fredonia
Clark, Charles M.....	Duquoin	Hall, Geo. R.....	Nilwood
Cline, John.....	LaSalle.....	Hanson, William	O'Fallon.....
Collins, John.....	Birkner.....	Harms, Heike	Petersburg
Cook, W. D.....	Westville.....	Harris, J. T.....	Tamaroa.....
Cotton, George.....	Hallidayboro.....	Heaver, F.....	Sandoval
Cox, John.....	Ledford.....	Hickox, Lee.....	Springfield
Craig, Daniel.....	Danville	Howe, Charles	Streator
Crawson, William.....	O'Fallon.....		
Crinigan, Barney.....	LaSalle.....	Ichman, Frank	Spring Valley....
Crocker, Edward.....	Marquette.....	Isadore, Charles	Sparta.....
Cruickshanks, Wm. A.....	Middle Grove.....	Isadore George	Sparta.....
Cummings, Robert H. L.....	Sparland.....		
Daley, Thomas	Diamond.....	Jackson, William	Minonk.....
Dauck, John.....	LaSalle.....	Jacobs, John P.....	Orchard Mines
Davenport, Thomas.....	New Castle.....	Jacobs, William	Murphysboro
Davis, George W.....	Hanna City.....	Jamison, John.....	Petersburg
Davis, Thomas.....	Swanwick.....	Jeffrey, William	Gilchrist
Davis, William H.....	Streator	Johnson, Edgar W.....	Marissas
Davison, J. G.....	St. John.....	Jones, George W.....	Riverton.....
Dawson, John.....	Streator	Jones, T. A.....	Muncie
Dawson, Thomas.....	Streator	Judd, Thomas	Cuba.....
Dawson, V. C.....	Spring Valley		
DeBacher, Thomas.....	Elmwood.....	Kearney, E.....	Hallidayboro.....
DeHass, B. L.....	Tallula.....	Kelley, Martin	Toluca
Dietrich, Philip.....	Freeburg	Kemper, Christian	Belleville.....
Dillon, John.....	Auburn.....	Kennedy, W. J.....	Edwardsville
Doe, R. P.....	Glen Carbon	King, Alexander, Jr.....	Carderville.....
Dodd, Samuel	Pottstown	King, John	Carderville.....
Ebel, August	Belleville		
Edwards, George W	Springfield		

Certificates of Service--Continued.

Name.	Postoffice.	Name.	Postoffice.
Thomas Jr...	Peru	Raber, Louis ..	Caseyville
John	Galva	Radford, James W ..	Cuba
Louis	Belleville	Radford, W. T ..	Bloomington ..
		Rahaur, Michael ..	Pawnee
n, James ..	Fairbury ..	Redyard, John ..	Odin
Charles L. ..	Galva	Reelise, William M ..	Roanoke
William H ..	Hallidayboro ..	Reid, A. B., Jr ..	Duquoin
Jacob H ..	Pottstown ..	Rennard, James E ..	Westville
William ..	Wanlock ..	Reum, Charles H ...	Sorento
Adolph ..	Kewanee ..	Rice, B. F.	Harrisburg ..
Benjamin ..	Rentchler ..	Richmond, Edward B ..	Winchester ..
William ..	Virden	Rieger, John C ..	Pinckneyville ..
erg, Eric ..	Galva	Riley, Michael ..	Westville
		Roach, Samuel ..	Tamaroa
		Rogers, George ..	Sunfield
		Rogers, Henry ..	Braidwood ..
		Rude, Edmond	DeSota
ll, Robert ..	Yates City ..		
ws, George ..	Duquoin ..	Sallade, George A. .	Chatham ..
r, Daniel ..	Spring Valley ..	Sanson, T. J.	Carterville ..
ws, C ..	Marion ..	Sawyers, Joseph ..	Coal City ..
ws, Wm. G ..	Bartonville ..	Schmacker, Charles ..	Marion ..
Edward ..	Spring Valley ..	Schramm, Charles ..	Belleville ..
ll, Fred ..	Peoria ..	Seebach, Joseph ..	Spring Valley ..
ster, Thomas ..	Muddy Valley ..	Sexton, LaFayette ..	Dawson
ald, William H ..	Pana ..	Seymour, A. J. ...	Fredonia ..
n, John ..	Pleasant Plains ..	Sheppard, W. C. .	Marquette ..
en, W. M ..	Danville ..	Shurm, Fred ..	Gardner ..
rthy, G. A ..	Smithboro ..	Smith Geo W ..	Virginia ..
, T. M ..	Tamaroa ..	Sorrells, D. H. ...	Ashtand ..
John ..	Spring Valley ..	Sowarby, Miles ..	Willaville ..
Wm ..	Streator ..	Stoker, Edward ..	Bartonville ..
on, Archie ..	Oglesby ..	Streck, William ..	Belleville ..
rd, R. A.	Kewanee ..	Stroud, William ..	Worden ..
, James H ..	Galva ..	Struck, Carl ..	Springfield ..
		Stuart, John.	Oglesby ..
mbrose ..	Barclay ..		
ohn H ..	Bunker Hill ..	Tanner, Henry	Pinckneyville ..
r, J. W ..	Sparta ..	Taylor, Benjamin ..	Bartonville ..
son, George A ..	Cuba	Taylor, Willard W. .	Tamaroa ..
John E ..	Galva ..	Telft, Ernst ..	Guard ..
		Telfer, John K	Morris ..
		Thome, Martin ..	Martinsville ..
, David ..	Rentchler ..		
Samuel ..	Mascontah ..	Wallace, Harry G. .	East Peoria ..
Aug ..	Kangley ..	Warner, Andrew M ..	Wenona ..
e, Benjamin ..	Streator ..	Waymire, James ..	Assumption ..
er, William ..	Catlin ..	Wertwood, Edward ..	Birkner ..
		Wheatley, Rulley ..	Duquoin ..
, John M ..	Equality ..	White Henry ..	Riverton ..
Charles ..	Marseilles ..	Wilbams, Huster ..	Spaulding ..
ast, James ..	Soperville ..	Williams, Stephen P ..	Wyoming ..
s, William ..	Hallidayboro ..	Williams, Watson ..	Barclay ..
Joseph ..	Farmington ..	Willis Harry ..	New Castle ..
Thomas H ..	Farmington ..	Wood, Daniel A ..	Colfax ..
Oliver ..	Worden ..	Woolbright, D. A. .	Centralia ..
rd, H. C.	Lewistown ..	Wonnes, Joseph ..	Birkner ..
tt, T. M ..	Niantic ..	Wormack, Charles A ..	Glen Carbon ..
Nevel ..	Dubois ..	Zeigler, John ..	Iles Junction ..
A. T.	Sato		

MINE EXAMINERS HOLDING CERTIFICATES OF COMPETENCY.

NOTE—The revised mining law of 1899 changed the title or name "Fire Boss" to that of "Mine Examiner," and provided that those holding certificates as Fire Boss could exchange the same for that of Mine Examiner.

The names followed by the abbreviation "ex." have made such exchange. Those by "d" are deceased.

Name.	Postoffice	Name.	Postoffice
Adams, Alexander	Carterville	Bost, Lock	Pana
Adams, William M.	Centralia	Bouer, Benj F	Herrin
Adrien, Charles H.	Hanna City	Bowen, Gwilym	Herrin
Allen, Ben	Virden	Bowen, Melvin I.	Blue Mound
Alexander, John	Cable	Bowie, Robert	Braidwood
Alexander, David H.	Pinckneyville	Bowman, Jacob	Salem
Amberger, Joseph	Chatham	Boyer, John	Fairmount
Andree, John W	Greenview	Bracewell, Warren	Danville
Anderson, James	Marion	Brennan, Patrick	Toluca
Andrew, Thomas	Oglesby	Brennan, John E	Virden
Andrew, Thomas	Angley	Brennan, George	Caseyville
Archibald, George	Green Kluge	Brewer, Emery A	Mt Pulaski
Armstrong, George	Riverton	Brod, Peter A.	Odin
Argyle, Joseph	Coal City	Brooks, Mac	Pleasant Plains
Arnold, Stephen	Oglesby	Brown, Ben F.	Bryant
Asbery, E.	Salem	Brown, Leslie L	Peoria
Asbery, J. B	Salem	Brown, Mathew	Springfield
Atkinson, John G.	Cable	Brown, Archibald	Streator
Avery, William	Belleville	Brooks, Peter	Taylorville
		Brvan, William	Virden
Back, Robert	Farmington	Bullough, James	Girard
Baker, Charles	Centralia	Bundy, John	Streator
Baker, Sherrard	Gillespie	Bumgartner, Andrew J.	Barclay
Baker, Robert	Auburn	Burgess, Wm W	Johnson City
Baker, Samuel G.	Auburn	Burke, John	Westville
Baldwin, J F	Equality	Burnett, J	Hallidayboro
Barker, John	Centralia	Burnett, Thomas	Hallidayboro
Barkley, George	Greenview	Burns, James, Sr	Springfield
Barlow, Harry	Lake Creek	Burns, J	Spring Valley
Barrowman, Wm T	De Soto		
Bauder, Fred	Herrin	Campbell, Robert	Witt
Baugh, William	Dawson	Campbell, James	Assumption
Beecham, William	Cardiff	Campbell, Edward	Pekin
Beekman, Theodore	Glen Carbon	Cannon, John	Marquette
Beggs, David	Fairbury	Capet, Moses	Coal City
Bell, Arthur	Carterville	Cappin, Aaron	Wenona
Bell, William	Streator	Carison, Andrew	Colfax
Berry, W C	Staunton	Carr, J W	Odin
Betson, Robt	Farmington	Carroll, Anthony W.	Gillespie
Bettison, William	Canton	Carter, James	LaSalle
Biehl, Charles	Belleville	Carter, Samuel	Braceville
Bigelow, George	Spaulding	Carterell, Claude	Herrin
Blair, Herbert M	Centralia	Carylon, J	Oglesby
Blaschke, Charles	Coal City	Case, William	Diamond
Blakemore, George	Streator	Casey, James	Selbourn
Blenkinsopp, Thomas, Jr	Cable	Casey, John	Williamsville
Blue, J W	Grape Creek	Cashen, W P	Lincoln
Booth, Knoch	Springfield	Castillo, Henry	Pana
Borg, Frank	Mt. Olive	Chadderton, John	Lenz Station

Certificates of Competency—Continued.

Name.	Postoffice.	Name	Postoffice
ey, James	Wenona ...	Forsyth, Hugh....	Marissa
William T	Ava ..	Fox, John.....	Elmwood
Walter ..	Lebanon	Frank, Anton	Freeburg
Robert ..	Farmington	Fremgen, C. J.....	Glen Carbon
oseth B	Hornaby	Fremgen, C. W ..	Glen Carbon
J E, Jr	Murphysboro ..	Fround, Isaac... ..	Taylorville ...
gham, David ...	Carlinville	Fryer, Alfred	Springfield
ey, James, ex ..	Wenona		
Charles H.	Hanna City	Gahagan, Frank ..	Harrisburg
y, Terrance J ...	Assumption	Galbraith, Patrick ...	Coal City.....
William	Duquoin	Galvin, Martin	Assumption
lijah	Wanlock	Gallagher, J. M ..	Carterville
thomas	Belleville	Galligan, Michael ..	Herrin
thomas	Belleville	Gastenecker, William..	Troy
Moses	Athens	Getaur, Joseph	Glen Carbon
Henry, ex	Pana	Geddis, Hamilton A..	Chatham
William	Duquoin	Getteman, L.	Centralia
Lawson	Taylorville	Ghebandy, Honore ..	Westville
thomas	Johnson City ...	Gillespie, John	Divernon
ghton, Edward ..	Belleville	Glover, Richard	Belleville
.....	Centralia	Gloss, Michael	Gardner
E.	Centralia	Goebe, William... ..	Staunton
ill M.	Edwardsville ..	Gosnell, Ira.....	Herrin
ng, J. M.	East Peoria, ..	Grabsuck, Emile ..	Gardner
ns, Ross	Danville ...	Graham, L. A	Bloomington ..
		Gramlich, Fred W. ..	Belleville
William	Springfield	Gray, Alexander ..	Gillespie
Charles	Odin ..	Gray, Henry	Athens ..
John	Kingson Mines ..	Gray, William	Streator ..
Andrew	Lanton	Green, Wm. H	Belleville
Frederick	Virgen ..	Green, J. W	Springfield ..
Held, Edwin ..	Herrin ..	Greenan, John	Coal City ..
John	Belleville ..	Gregor, Charles	Springfield ..
Emmer E	Astoria ..	Griffin, John B	Niantic ..
George	Springfield ..	Griffith, Peter.....	Palaley ..
Thomas	Nilwood ..	Griffiths, Evan	St. David ..
William	Streator ..	Griffith, David ...	Centralia ..
William H	Streator ..	Groom, Isaac	Belleville ..
Jackson	Athens	Guy, John	Streator ..
William	Streator ..		
John	Taylorville	Haddow, Thomas..	Pana
n, Forest W ..	Sandoval ..	Hardman, J. J	Auburn ..
William D.	Sandoval	Harris, Wm	Hallidayboro ..
ula B	Taylorville	Harrison, James ..	Athens ..
J	Roanoke ..	Harrison, John	Odin ..
a, William E ..	Rentchler ..	Hann, George	Litchfield ..
J. G	Sparta ..	Hamilton, David	Assumption ..
on, Wm. F.	Athens ..	Hampton, Harry ..	O'Fallon ..
H. N	East Peoria ...	Handwright, J	Virgen ..
Charles.....	Harrisburg ..	Hausheld, Aaron ...	Oglesby ..
P. J.	Westville ..	Hart, Chas. J.....	Virgen ..
Jonathan, Sr ..	LaSalle ..	Harron, Walter ...	Sorento ..
l, W	Danville ..	Haselton, F	Springfield ..
William C	Centralia... ..	Harvey, C. M	Williamsville ..
		Hawkins, Sidney....	Belleville
Is, Morgan	Mt. Olive	Hayden, G. S.	Wenona ..
William	Mt. Olive	Hayes, Webster	Glen Carbon ..
Charles R ..	Pana ..	Hanson, Charles ..	Danville ..
Thomas	Streator ..	Hardin, Hiram H ..	Divernon ..
Edward R ..	Hallidayboro ..	Harvey, Frank	Springfield
Edward J... ..	Pekin ..	Haskins, Joseph ..	Catlin ..
Gwilym I... ..	Duquoin ..	Hillery, T	Sherard ..
		Haywood, Joseph..	Centralia ..
James	Marissa ..	Hebenstreet, J. A.....	Staunton ..
Walter	Barclay ..	Hellery, G. M	Dunfermline ..
John H	Springfield ..	Hemmersbach, Peter ..	Farmington ...
Henry ...	Staunton	Hemley, J. H.	Odin ..
F.	Staunton	Henderson, Alexander	Springfield ..
ham, John E ..	Peoria ..	Henderson, J	Spaulding ..
egan	Johnson City ..	Herbert, Albert W ..	Athens ..
Harry	Petersburg ..	Hexter, John ..	Freeburg ..
Charles	Pana ..	Hertzog, W	Glen Carbon ..
John	Duquoin ..	Hines, William ...	Rutland ..
in.	Tilden ..	Hippard, W. J	Belleville ..
		Hodder, Jacob ...	Norris ..

Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Hooper, Geo.....	Winchester.....	Lettsom, Wm.....	Seneca.....
Houston, Robert J.....	Lebanon.....	Linton, Quincy M.....	Gillespie.....
Holcomb, Reuben.....	Westville.....	Lehwald, Herman.....	Springfield.....
Holden, Andrew.....	Coal City.....	Lloyd, Rowland R.....	Barclay.....
Hopkins, Reese.....	Litchfield.....	Loeffler, Anton.....	LaSalle.....
Horn'ng, E. E.....	Harrisburg.....	Longshore, Harry A.....	Duquoin.....
Howell, J.....	Carterville.....	Lockhart, James M.....	Sunfield.....
Howells, George.....	Staunton.....	Lore, William.....	Springfield.....
Hoye, William.....	Braidwood.....	Lorden, Michael.....	Centralia.....
Honbuan, M.....	Herrin.....	Lumaghi, Louis F.....	Collinsville.....
Hughes, John.....	Decatur.....	Lyons, Mark.....	Lincoln.....
Hutchinson, Ralph.....	Barclay.....		
Irrers, Daniel.....	Mt. Olive.....	Malcor, Henry.....	Riverton.....
		Manees, Charles.....	Centralia.....
		Mann, Jacob.....	Mascoutah.....
		Markel, Albert.....	Hillsboro.....
Jackson, John.....	Marion.....	Mason, Myrick.....	LaSalle.....
James, Jonah.....	Grape Creek.....	Martin, Samuel.....	Glen Carbon.....
Jaques, Charles.....	Riverton.....	Martin, William.....	LaSalle.....
Jarrell, Edward.....	Harrisburg.....	Maggs, Jacob.....	Danville.....
Jasper, John.....	Duquoin.....	Massie, Alfred N.....	Belleville.....
Jenkins, Richard.....	LaSalle.....	Massie, J. G.....	Belleville.....
Jenkins, T. C.....	Murphysboro.....	Matthews, John E.....	Riverton.....
Jenninns, Wm. M.....	Athens.....	Merkel, Benj.....	Sandoval.....
Jeten, T. F.....	Roanoke.....	Mayne, Thomas.....	Glen Carbon.....
Johnson, David.....	Oglesby.....	Maynard, Thomas.....	Wanlock.....
Johnston, Samuel.....	Oglesby.....	Meyer, B.....	Staunton.....
Johnson, James N.....	Carterville.....	Meyer, Louis.....	Breese.....
Jones, Alex.....	Oglesby.....	Myers, Isaac.....	Harrisburg.....
Jones, Ben. J., ex.....	Coffeen.....	Midyett, Jesse.....	Hallidayboro.....
Jones, Thomas.....	Lebanon.....	Millett, Thomas.....	Troy.....
Jones, John.....	Springfield.....	Mitchell, Elijah J.....	Farmington.....
Jones, Willis.....	Herrin.....	Mitchell, T.....	DuQuoin.....
Jones, Benj. J.....	Coffeen.....	Mitchinson, John.....	Hanna City.....
Jones, Morgan.....	Litchfield.....	Middleton, J. L.....	Salem.....
Jones, Robert R.....	Oglesby.....	Miller, Alexander.....	Ridge Prairie.....
Jones, Wm. Hy.....	Catlin.....	Millar, C.....	Glen Carbon.....
Jones, John O.....	Braceville.....	Miller, John K.....	Staunton.....
Jones, David.....	Westville.....	Miller, G. W.....	Pawnee.....
Jones, John.....	Clark City.....	Miller, W. W.....	Lincoln.....
Jones, Thomas.....	Taylorville.....	Miles, E. E.....	Centralia.....
Jordan, Robert (d).....	Streator.....	Moffat, A. S.....	Sparta.....
Jordan, Alfred.....	St. David.....	Monghan, T. P.....	Springfield.....
		Monson, Charles.....	Springfield.....
		Montgomery, Wm.....	Harrisburg.....
Kane, J. M.....	Springfield.....	Moran, Thomas.....	Assumption.....
Kaney, John.....	Centralia.....	Morgan, Daniel S.....	Springfield.....
Kaveny, John R.....	Troy.....	Mornkio, Peter.....	Glen Carbon.....
Kenney, Wm.....	Sparland.....	Mountjoy, John H.....	Clark City.....
Kepper, Wm.....	Peru.....	Morris, James P.....	Centralia.....
Kidd, S. A.....	Oglesby.....	Morfell, Fred.....	LaSalle.....
Kingsley, G.....	Kingston Mines.....	Morgan, E. T.....	Georgetown.....
Kingsley, T.....	Kingston Mines.....	Morgan, Joseph.....	Streator.....
Killingworth, Chas. H.....	Pinckneyville.....	Morris, John H.....	Wenona.....
Kloeber, Matthew.....	Pana.....	Moses, John L.....	Johnson City.....
Knapp, Charles.....	Seatonville.....	Moss, Thomas.....	Staunton.....
Knies, Harry.....	Breese.....	Muentrich, J.....	Staunton.....
Koehler, Charles.....	Lincoln.....	Mulhollen, Peter.....	Bissell.....
Kohers, Adam.....	Breese.....	Mullage, Jos.....	Worden.....
Kalkmann, Gustav.....	Marissa.....	Mulhollan, Joseph.....	Springfield.....
Kortkamp, Karl.....	Hillsboro.....	Munster, James.....	Muncie.....
Kortkamp, Louis.....	Hillsboro.....	Muir, Andrew.....	Springfield.....
Kosesky, Abel.....	LaSalle.....	Murphy, John.....	Braidwood.....
Kramer, Frederick.....	Centralia.....	Murphy, Michael.....	Pana.....
Kramer, Leo.....	Mt. Olive.....	Murrel, Wm.....	Westville.....
Kreppert, William.....	Springfield.....	McCall, Maurice R.....	Odin.....
Krump, Chas.....	Lebanon.....	McCranor, James.....	Girard.....
Kuehncl, August.....	Braceville.....	McCrindle, David.....	Oglesby.....
		McDonald, Wm.....	Braidwood.....
		McDonald, Archibald.....	Westville.....
		McDill, James.....	Assumption.....
Lamar, Frank.....	Worden.....	McEwen, Charles.....	Carbon Hill.....
Lamb, George.....	Springfield.....	McFadden, Wm.....	Danville.....
Lasley, Wm.....	Hallidayboro.....	McKillop, Donald.....	Carbon Hill.....
Lawson, John.....	Cable.....	McLachlan, Alexander.....	Springfield.....
Lawson, Thomas.....	Lake Creek.....	McLachlan, John.....	Springfield.....
Ledford, L.....	Ledford.....		

Certificates of Competency—Continued.

Name.	Postoffice	Name.	Postoffice
John .. .	Springfield	Rankin, Thomas A	Westville ..
Alex. C .. .	Canton	Ready, Thos	Springfield ..
Hugh (d) .. .	Springfield	Reareley, G. W	Riverton .. .
lin, John P ..	Auburn	Reid, Andrew ..	Springfield
lin, Patrick ..	Chatham	Rehg, Charles	Belleville
George .. .	Mascoutah	Remison, Henry.	St. John ..
ohn .. .	Springfield	Reynolds, John	Streator ..
lin, Wm .. .	Duquoin	Reynolds, Andrew	Danville
dm, F .. .	Hes Junction ..	Reynolds, David	Muncie
ian, Edward.	Westville ..	Rhodes, D R ..	Pana
		Rhodes, J L ..	Westville
		Rice, Geo .. .	Springfield
enry C .. .	Glen Carbon ..	Ritson, Hugh ..	Farmington
W .. .	Glen Carbon ..	Rider, James H.	Pontiac
ard O .. .	Wolcott	Richard, James	Belleville
	Spaulding	Richardson, Thom	Streator ..
ren .. .	Danville	Richter, Franz H.	Springfield..
	Gillespie	Roberts, Evan	Danville
William .. .	St. David	Robinson, Thos J	Greenview ..
Charles L. ..	Freeburg.	Robbins, Aaron....	Mt Pulaski..
, Juliaa... ..	Troy	Roger, James. .	Virden
Dennis .. .	Selbytown	Rolls, James	Pana
lt W .. .	Dunfermline	Rolandelly, C D..	Clarke City . .
bert .. .	Streator	Ross, S H	Gillespie
ohn .. .	Bloomington	Ross, John H ..	Gillespie
S. K.....	Athens	Rowlands, Iver	Virden
les .. .	Springfield	Rude, Michael.	DeSoto
r .. .	Belleville ..		
Ferdinand.	Breese	Sauer, G G Fred.	Belleville..
	Decatur	Saurs, C.	Peoria
		Savage, Mike ...	Lincoln
Thomas .. .	LaSalle.	Scattergood, John	Barclay
Patrick F. ..	Paisley ..	Schmidt, Conrad	Lincoln
iley .. .	Harrisburg.	Schmidt, Henry	Staunton
in .. .	Germantown	Schmidt, A R.	Spaulding ..
eter W.	Springfield	Schrayer, Moses	Springfield
man W.	Canton	Scott, Wm J ..	Springfield.
van .. .	Auburn ..	Scoby, Ray ..	Gilchrist
		Sebastain, Charles	Freeburg.
seph.	Carbon Hill	Seidl, Frank J.....	Sandoval
erry .. .	Litchfield	Self, J	Glen Carbon..
manuel.	Litchfield	Secor, T D ..	Odin
in .. .	Bradwood	Shanahan, Patrick H...	Gillespie
bert.	Tilden	Shuster, Harb C.	Peoria
A .. .	Roanoke ..	Shuster, B J ..	Peoria
J.	Roanoke	shaw, Henry. .	Spring Valley
Robert.	Roanoke	Siddall, Edward.	Streator..
George .. .	Herr n	Siddall, John W..	Streator ..
benjamin ..	Kangley	Siddall, James ..	Streator.. ..
ard .. .	Central City...	Sine C A ..	Herrin
W .. .	Spring Valley	Smith, Geo A.	Sandoval ..
John L.	Harrisburg	Smith, Geo T.	Dawson
lix .. .	Danville	Smith, Henry	Smithton ..
ohn W .. .	Farmington ...	Smith, William H	Taylorville.
dward.	Coal City	Smith, John P.....	Glen Carbon
mucl .. .	Coften	Smith, James.	Streator..
ed .. .	Springfield	Smith, Benjamin	Canton
d W .. .	Edinburg ...	Smith, Harry. .	Troy
bert H .. .	Belleville	Smith, John H	Herrin
	Hanna City, R R..	Smith, William	Belleville
	No 1.	Smith, Holden J.	Centralia
n B .. .	Marissa	Smith, Matt	Centralia ..
n .. .	Braceville. .	Sneddon, Michael	Chatham
omas.	Mt Olive	Sneddon, George.	Chatham
Edward	Centralia.	Snyder, Henry	Herrin
		Solles, John	Centralia.....
ard .. .	Bloomington	Southworth, Andrew P	Belleville..
		Spiller, George.	Johnson City
lulph .. .	Carlisle ..	Spires, Alfred ..	Braceville.
ge .. .	Springfield	Spires, E	Braceville
mary .. .	Packneyville ..	Spires, William	Braceville.
.....	Carbon Hill ..	Stafford, Frank....	Lebanon
.....	Harrisburg.....	Steel, Daniel ..	Collinsville ..
		Steele, D	Centralia ..
		Steel, Neal	Centralia.
		Steina, James.. ..	Hallidayboro ...

Certificates of Competency—Concluded.

Name.	Postoffice.	Name.	Postoffice.
Stearns, John.....	Hallidayboro.....	Ward, Robert, ex.....	Streator.....
Stoneburner, L. L.....	Sorento.....	Ward, Wilson.....	Paisley.....
Slow, Michael.....	Braceville.....	Wardell, John.....	Marion.....
Steiber, Anton.....	Glen Carbon.....	Warrington, Frank.....	Divernon.....
Steines, Benjamin.....	Willisville.....	Watson, Thomas.....	Central City.....
Stenx, Adolph.....	Auburn.....	Watson, John.....	Warden.....
Stevens, Walter.....	Streator.....	Wendler, Adelbert.....	Glen Carbon.....
Stevens, John.....	Cuba.....	Westwood, F. T.....	Belleville.....
Stewart, John T.....	Coulterville.....	Whalen, Michael.....	Greenridge.....
Stirrat, James.....	Canton.....	White, Louis.....	Spring Valley.....
Stone, Wm.....	Sherrard.....	White, John.....	Pana.....
Streitner, J.....	Kewanee.....	White, Wm. H.....	Riverton.....
Stricklin, Wm H.....	Harrisburg.....	Whitecamper, Louis.....	Lincoln.....
		Whitehead, Edward.....	Farmington.....
		Wilkinson, Geo. R.....	Bissell.....
		Wetherell, James.....	Ladd.....
		Wigham, Wm G.....	Sparta.....
		Willard, Charles S.....	Glen Carbon.....
		Williams, James.....	Oglesby.....
		Williams, T. J.....	Cardiff.....
		Williams, Anthony.....	Centralia.....
		Williams, William H.....	Edinburg.....
		Williamson, Jacob H.....	Bissell.....
		Williamson, Jacob.....	Bissell.....
		Wilson, Henry, ex.....	Pana.....
		Wilson, J. M.....	Springfield.....
		Williams, Wm E.....	Streator.....
		Williams, Thos.....	Kinmundy.....
		Wilson, Henry.....	Pana.....
		Winterbottom, John.....	Sparta.....
		Winterbottom, J. G.....	Sparta.....
		Wonderlick, John.....	Marissa.....
		Wood, William.....	Streator.....
		Worthington, Hallard.....	Hallidayboro.....
		Wright, David.....	Carlinville.....
		Wright, William C.....	Centralia.....
		Yemm, William.....	Gillespie.....
		Young, Sidney J.....	Canton.....
		Zink, P. J.....	Belleville.....

MINE EXAMINERS, CERTIFICATES OF SERVICE.

Name.	Postoffice.	Name.	Postoffice.
Arnold, Stephen.....	Kangley.....	Gray, William.....	Streator.....
		Griffin, John.....	Niantic.....
Bagshaw, George W.....	Virden.....	Hall, John Herbert.....	Monk.....
Blakeman, George.....	Streator.....	Hoesfield, Aaron.....	Oglesby.....
Borg, Frank.....	Mt. Olive.....	Hornanor, Paul.....	Lincoln.....
Boulton, Henry.....	Coal City.....	Hughes, John.....	Decatur.....
Bough, William.....	Dawson.....	Humphreys, William.....	Clarke City.....
Brooks, Peter.....	Taylorville.....		
Brown, John.....	Streator.....		
		Jenkins, Rutland.....	LaSalle.....
Caveny, Edward.....	Pana.....	Kneper, David.....	Girard.....
Davis, Thomas.....	Nilwood.....		
Franzen, Mat.....	Girard.....		

Mine Examiners, Certificates of Service—Concluded.

Name.	Postoffice.	Name.	Postoffice.
ps, August	Girard	Schultz, John	Diamond
camp, Carl	Hillsboro	Shaw, Francis M.	Hallidayboro
camp, Lewis.....	Hillsboro	Shopman, John	Mt. Olive
		Siebenhawer, Wm	LaSalle
		Sloufskie, Hermann.....	Decatur.....
s, Edward.....	Ladd	Stewart, Samuel	Coal City.....
ett, Edward A	Bartonville.....	Taylor, Samuel	O'Fallon.....
tgomery, John H.....	Gardner	Thomas, David	Canton
ney, Arthur	Kangley		
onald, M. E	LaSalle	Ward, Robert	Streator
		Wilson, Archie.....	Clarke City.....
, S. H.....	Girard	Wilson, John	Gardner
		Wood, Henry.....	Streator.....
midt, Ernest.....	Mt. Olive.....		

SIXTH ANNUAL REPORT

OF THE

Bureau of Labor Statistics

OF THE

ILLINOIS

Free Employment Offices

FOR THE

Year Ended October 1, 1904.

(Established August 2, 1899.)

DAVID ROSS, Secretary, Springfield.



SPRINGFIELD:
ILLINOIS STATE JOURNAL CO., STATE PRINTERS.
1905.

INTRODUCTION.

The original law creating free employment offices in this State came effective July 1, 1899. In addition to the equipment of offices to be managed and controlled at the expense of the State, it prescribed certain regulations relating to the operation of private employment agencies, and requiring from each agency a license fee \$200.00 per annum, said license to be issued by the Secretary of State.

The legislature, however, had made no provision to meet the expenses incident to its enforcement, and as there was a general protest on the part of private employment agents, against the payment of what they considered an exorbitant, if not a prohibitory fee, but little effort was made to force compliance beyond an agreement to have suit brought to test its constitutionality. Pending a decision in the case, the law was practically a dead letter. An opinion was not rendered until the April term, 1903, of the Supreme Court, when it was declared unconstitutional, because of the provisions of section 1 which prohibited the superintendents in charge of the free employment offices from sending help to any one whose employes were on strike or locked out. The court held the direct effect of that discrimination was to deny to certain people the benefit of the law and for that reason alone declared the entire act null and void. Immediately following this decision, the legislature being in session, a new law was enacted which eliminated the section objected to by the court, reduced the license fee from \$200.00 to \$50.00 per annum, giving the bureau supervision over private employment agencies, and authorizing the Commissioners of Labor to apply the fees collected from licenses, or such amount thereof as might be necessary, to enforce compliance with the law. So far, therefore, as the private employment agencies are concerned they have been subject to the law's requirements only since May 11, 1903, the date of the amended act.

In the meantime the commissioners have spared no effort to force observance of its provisions. The record since made is commendable and sustains the change in the means and manner of its enforcement. Prior to the bureau's supervision, only a few agencies were licensed and the business, as a rule, was conducted in violation of law and without any inspection on the part of the State.

The opportunity for the employment agent is naturally found in the large cities. Of the 200 licensed agencies in the State, all, with the exception of a dozen, are located in the city of Chicago. It was a consideration of this fact that caused the Commissioners of Labor to appoint and authorize George W. Geary, Superintendent of the South Side Free Employment office, to act for them in the matter of issuing licenses to private employment agents operating in that city, and in all prosecutions, incident to the enforcement of the law. Mr. Geary is a native of Chicago, and by reason of his long connection with organized labor, is thoroughly familiar with the haunts and habits of the average employment agency. The Commissioners of Labor feel a pleasure in thus acknowledging the value of his services and cheerfully attribute to his vigilance and untiring industry the credit resulting from a fearless and strict enforcement of the law.

Since the bureau obtained supervision over the private employment agencies, they have been required to conduct their business in conformity with the letter of the statute. This work necessarily involves an examination at frequent intervals of the records kept by them, and of arrests and prosecutions instituted either to compel those operating without a license to comply with the law, or in the other numerous class of cases, where the licensed agency had failed, whether purposely or not, to observe its provisions. For these and other causes 361 suits have been prosecuted and convictions in nearly every case obtained. Several licenses have been revoked where it appeared that the principal object in securing them was to use it as a shield in perpetrating fraud. Under the law, licensed employment agents are permitted to charge a registration fee not to exceed \$2.00, which must be returned to the parties paying, on failure to secure employment. By virtue of this provision, the licensed employment agencies of Chicago have been compelled to return registration fees, amounting in the aggregate to \$3,522.00. It is needless to say that this sum of money was returned to the poor and unsuccessful applicants only after the threat of a vigorous criminal prosecution. Among the more salutary effects of the law's enforcement has been the elimination of the padrone system. The accomplishment of this result, if nothing else had been done, confirms the wise and beneficent purpose of the law, and fully justifies and rewards the expenditure of time and money in its enforcement.

SIXTH ANNUAL REPORT
OF THE
Illinois Free Employment Offices,
1904.

(ESTABLISHED AUGUST 2, 1899.)

This is the sixth annual report of the Illinois Free Employment offices for the year ended October 1, 1904.

The result of the work of the four offices from their organization to October 1, 1904, is shown by years in the following table:

YEAR.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
	Number filed.	Number positions secured.	Number unfilled.	Number filed.	Number unfilled.
1899 *	13,097	6,497	6,600	10,370	3,873
1900	37,285	31,218	6,067	35,542	4,324
1901	27,605	23,996	3,609	28,124	4,128
1902	44,900	40,181	4,719	47,497	7,316
1903	43,510	39,227	4,283	47,559	8,332
1904	37,493	31,724	5,769	36,710	4,986
Total	203,890	172,843	31,047	205,802	32,959

* Nine weeks.

At the close of the sixth year a total of 203,890 persons had applied for employment; of these, 172,843 or 84.77 per cent were secured positions; during the same period, 205,802 applications were filed for help; of this number, 83.99 per cent were supplied. These percentages are almost identical with those at the close of the fifth year.

Following is the record of the four offices for the year ended October 1, 1904.

The combined work of the four offices is here presented in condensed form. The total number of positions secured to applicants for employment is nearly 20 per cent less than last year.

TABLE 1—Showing the Combined Business of the Four Offices for the Year.

OFFICES.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
	Number filed.	Number positions secured.	Number unfilled.	Number filed.	Number unfilled.
North Side Office—Males	4,162	4,006	156	5,243	1,237
North Side Office—Females.....	3,947	3,770	177	4,665	895
Totals.....	8,109	* 7,776	333	9,908	2,132
South Side Office—Males.....	8,031	7,380	651	8,144	764
South Side Office—Females.....	4,964	4,748	216	5,642	894
Totals.....	12,995	12,128	867	13,786	1,658
West Side Office—Males	6,976	3,920	3,056	3,986	66
West Side Office—Females	2,593	1,831	762	2,544	713
Totals.....	9,569	† 5,751	3,818	6,530	779
Peoria Office—Males	4,594	4,099	495	4,252	153
Peoria Office—Females	2,226	1,970	256	2,234	264
Totals.....	6,820	6,069	751	6,486	417
Total Males—Four Offices	23,763	19,405	4,358	21,625	2,220
Total Females—Four Offices	13,730	12,319	1,411	15,085	2,766
Grand totals	37,493	‡ 31,724	5,769	36,710	4,986

* Of this number, 84 males and 122 females, a total of 206, were secured positions on applications filed last year.

† Of this number, 8 males and 1 female, a total of 9, were secured positions on applications filed last year.

‡ Of this number, 92 males and 123 females, a total of 215, were secured positions on applications filed last year.

The grand totals of this table show the registered number of applicants for employment to be 37,493, and that 36,710 employers registered as seeking to employ help. The notes at the bottom of this table show that 215 applications for employment were brought forward from last year; of these, 92 were males and 123 females. These applications increase the number to a total of 37,708. Considering this total number it will be seen that 23,855 or 63.26 per cent were males, and 13,853 or 36.74 per cent were females. Of the whole number of applicants for employment, positions were secured for 31,724 or 84.13 per cent; of these, 19,405 or 81.34 per cent were males, and 12,319 or 88.93 per cent were females.

The applications of employers filed during the year, desiring to employ help, number 36,710; of this number 21,625 or 58.91 per cent were for males and 15,085 or 41.09 were for females. It is found that of the number of employers applying for help 86.42 per cent were

supplied, of these, 89.73 per cent were males and 81.66 per cent were females. This is a larger percentage of both males and females than shown for last year.

The percentages of each office and the four offices is presented in the following table:

TABLE 2—Percentages of Positions Secured and Percentages of Help Furnished, both Male and Female.

OFFICES.	PERCENTAGE OF POSITIONS SECURED APPLICANTS FOR EMPLOYMENT.			PERCENTAGE OF APPLICATIONS FOR HELP FURNISHED.		
	Males.	Females.	Both sexes.	Males.	Females.	Both sexes.
North Side Office.....	96.25	95.57	95.89	76.41	80.81	78.48
South Side Office.....	91.89	95.65	93.33	90.62	84.15	87.97
West Side Office... ..	56.19	70.61	60.10	98.34	71.97	88.07
Peoria Office.....	89.23	88.50	88.99	96.40	88.18	93.57
The four offices.....	81.66	89.72	84.61	89.73	81.66	86.42.

The percentages here shown are for positions secured to applicants for employment registered during the fiscal year, while the number brought forward from last year is included in the percentages of the applications for help furnished.

Referring to the Chicago offices, it will be seen that the North Side office furnished the largest percentage of positions secured for males, and that the South Side office slightly the largest percentage for females. The West Side office supplied the largest per cent of males to those desiring help, and the South Side office the largest per cent of females; in this connection the Peoria office outranks all the other offices in percentage of females, and is second only to the West Side office in the percentage of males; it also shows the largest percentage of the four offices for both sexes.

The work of the four offices in placing applicants for employment in positions shows a slight decrease from last year, while for help supplied an equal increase is shown. The following gives the percentages for the two years:

YEAR.	POSITIONS SECURED.			HELP FURNISHED.		
	Males.	Females.	Both sexes.	Males.	Females.	Both sexes.
1903	87.28	89.52	88.01	87.94	73.20	82.48
1904	81.66	89.72	84.61	89.73	81.66	86.42

The percentage of positions secured to female applicants for both years exceeds that of males, while for female help supplied to employers it was less than that of males being almost in the same ratio.

APPLICATIONS FOR EMPLOYMENT.

The following table gives, for the four offices, for the year the applications for employment by classified occupations:

TABLE 3—*Work of All the Offices—Three in Chicago, One in Peoria—Receiving Applications for Employment.*

MALES.

Number.	OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT TO OFFICES.				Total.
		North Side.	South Side.	West Side.	Peoria.	
	Grand totals	8,109	12,995	9,569	6,820	37,493
	Males	4,162	8,031	6,976	4,594	23,763
	Females	3,947	4,964	2,593	2,226	13,730
	Total males	4,162	8,031	6,976	4,594	23,763
1	Agents		30	2		32
2	Any light work			31		31
3	Apprentices			34	13	47
4	Architects	1				1
5	Artists		2	2		4
6	Bakers	3	23	18	10	54
7	Barbers		6	2		8
8	Barnmen	53	108	32	109	302
9	Bartenders	1	14	23	1	39
10	Bench hands			23		23
11	Blacksmiths	50	24	20	19	113
12	Blacksmith helpers			15		15
13	Boiler makers		5	1	1	7
14	Bookbinders	2		2		4
15	Bookkeepers	3	26	27	10	66
16	Bootblacks		46			46
17	Boxmakers		33	5		38
18	Boys	213		139	6	358
19	Boys, bell		14	1	22	37
20	Boys, cash		23			23
21	Boys, delivery		41		92	133
22	Boys, elevator				6	6
23	Boys, errand		42	1	33	76
24	Boys, factory				28	28
25	Boys, office		35	11	9	55
26	Brakemen			4	6	10
27	Brass finishers			5		5
28	Bricklayers			5		5
29	Bridge builders			1		1
30	Butchers	3	28	6	1	38
31	Butlers	10		1		11
32	Cabinet makers	4	2	16		22
33	Calciminers		2			2
34	Candy makers				2	2
35	Canvassers	22		3	10	35
36	Carpenters	45	48	61	39	193
37	Carpet layers		4			4
38	Carriage and wagon washers	2	14	5		21
39	Cashiers		2	1		3
40	Checkers			5		5
41	Cigar makers	1		1		2
42	Circular distributors			1		1
43	Cleaners, harness			2		2

Table 3—Continued.

Number.	OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT TO OFFICES.				Total.
		North Side.	South Side.	West Side.	Peoria.	
44	Clerks				3	3
45	Clerks, bill			2		2
46	Clerks, drug		3			3
47	Clerks, dry goods		2			2
48	Clerks, general		55			55
49	Clerks, grocery		24	3	4	31
50	Clerks, hotel			3	1	4
51	Clerks, office		20			20
52	Clerks, order				2	2
53	Clerks, shipping		28	10	3	41
54	Clerks, not stated	44		242		286
55	Coachmen	27	24	13	12	76
56	Coal heavers			1		1
57	Coal miners				5	5
58	Coal weighers				2	2
59	Collectors	3	3	19	15	41
60	Compositors			2		2
61	Cooks	38	252	52	93	435
62	Conductors	1		1		2
63	Core makers			7		7
64	Dairymen				14	14
65	Deckhands		2			2
66	Dishwashers	42	280	25	59	415
67	Distributors				2	2
68	Doormen		3			3
69	Draughtsmen			5		5
70	Drillpress men			50		50
71	Drivers	188		138	22	348
72	Electricians	5	17	22	3	47
73	Elevatormen	11	72	75		158
74	Engineers	5	37	50	17	109
75	Factory hands	477	195	779	307	1,758
76	Farmers	95		4		99
77	Farm hands		418	344	161	923
78	Firemen	8	43	94	28	171
79	Florists		10		1	11
80	Foremen			3		3
81	Foundrymen			3		3
82	Furnace tenders			1		1
83	Gardeners	9	17	4	14	44
84	Glass workers			1		1
85	Guards, railroads		2			2
86	Harness makers		4	2		6
87	Harvest hands				40	40
88	Horseshoers	1		2		3
89	Hostlers		11	45	4	61
90	Housemen	213	481	95	36	825
91	Ice cutters				17	17
92	Interpreters		2			2
93	Iron workers			22	1	23
94	Janitors	65	106	73	47	293
95	Kitchen work	9	137	11	11	168
96	Laborers	1,773	3,313	2,470	2,555	10,111
97	Laborers, railroad		236		115	351
98	Lathe hands	1		13	1	15
99	Lathers			1		1
100	Laundrymen		35	8	1	44
101	Linemen—electrical			2		2
102	Linemen, not stated			1	3	4
103	Locksmiths			5		5
104	Machine hands	7		124		131
105	Machinists	20	37	160	23	240
106	Mastis	1				1
107	Malsters				1	1
108	Metal workers	1		9	1	11
109	Millers			1		1
110	Millwrights		3	7		10
111	Miners		17			17
112	Molders	1	4	5	8	18
113	Models		1			1
114	Nurses	2	8			10
115	Office help	9		2	21	32
116	Others			1		1

Table 3—Continued.

Number	OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT TO OFFICES.				Total.
		North Side.	South Side.	West Side.	Peoria.	
117	Packers	10	41	57	2	110
118	Painters.....	79	28	32	32	169
119	Paper hangers.....		2	4	1	7
120	Pantrymen	1	1	1		3
121	Panwashers.....				3	3
122	Pattern makers			6	2	8
123	Pharmacists				1	1
124	Photographers		1	1		2
125	Pinsetters.....		27			27
126	Pipe fitters.....				1	1
127	Plasterers		1	4	1	6
128	Plumbers.....		10	4		14
129	Polishers—metal		3	1		4
130	Polishers—not stated.....			3		3
131	Porters	115	492	179	91	877
132	Pressers.....			2	1	3
133	Pressmen.....	4	2	2		8
134	Printers	3	2	11		16
135	Punch press hands			34		34
136	Railroadmen			5		5
137	Roofers.....				2	2
138	Sailors			1		1
139	Salesmen	5	17	28	41	89
140	Sawyers.....			5		5
141	Shoemakers	1	4	4		9
142	Shovelers.....				34	34
143	Silvermen			1		1
144	Solicitors.....		7	17	9	33
145	Steam fitters.....	1	6	6		13
146	Stenographers.....	5	17	9	1	32
147	Stockmen.....	17	182			199
148	Stock keepers			67		67
149	Stone cutters.....			2		2
150	Stovemmen.....			1	2	3
151	Tailors.....		3	5		8
152	Teachers.....			1		1
153	Teamsters	166	105	129	185	585
154	Telegraphers.....		1			1
155	Time keepers.....			2		2
156	Tinsmiths.....	3	10	13	1	27
157	Tool makers.....			6		6
158	Truckman			13		13
159	Upholsterers.....		6	1	1	8
160	Vice hands.....			4		4
161	Waiters.....	22	291	28	26	367
162	Watchmakers.....		1			1
163	Watchmen.....	9	51	82	8	150
164	Wholesale men			22		22
165	Window washers.....	162	149	122		433
166	Wood finishers.....			7		7
167	Wood workers.....		2	10	4	16
168	Yardmen		86	8	73	167
169	Miscellaneous—not classified.....	90		512		602

FEMALES.

Total females.....		3,947	4,964	2,593	2,226	1,373
1	Addressers	1		7	6	14
2	Agents		1			1
3	Apprentices			1		1
4	Attendants			1	3	4
5	Bookkeepers	5	12	8	14	39
6	Bottle labelers.....			7	1	8
7	Canvassers.....	3		3	12	18
8	Cashiers	8	9	13	4	34
9	Clerks	14	10	8	16	48
10	Collectors				1	1
11	Chambermaids	224	408	223	111	966
12	Companions	1	4	4		9
13	Cooks.....	356	465	212		1,033

Table 3—Concluded.

Number	OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT TO OFFICES.				Total.
		North Side.	South Side.	West Side.	Peoria.	
14	Copyists			1		1
15	Dayworkers	356	184	183	136	859
16	Demonstrators			2	3	5
17	Dining room help	92		48	178	318
18	Dishwashers	243	403	133	156	935
19	Distributors				2	2
20	Domestics			499		499
21	Factory work	85	248	255	156	744
22	Folders, circulars			12		12
23	General housework	1,695			808	2,503
24	Governesses			2		2
25	Hotel help				9	9
26	Housekeepers	73	101	108	95	377
27	Housework		1,524			1,524
28	Janitresses	1	1	9	9	20
29	Kitchen help	202	305	148	100	755
30	Lady's maid		1	1	1	3
31	Laundresses	57	140	118	11	326
32	Mail order help			2		2
33	Matrons	1				1
34	Milliners				1	1
35	Nurses	96	81	51	23	251
36	Nurse girls				31	31
37	Office work	16	88	37	76	217
38	Pantry work	24	47	27	23	121
39	Proof readers			1	1	2
40	Reception service			2		2
41	Saleswomen		2			2
42	Scrubwomen	92	323	220	21	656
43	Seamstresses	33	46	17	19	115
44	Second work	145	90	33	47	315
45	Silver girls				2	2
46	Solicitors		2	8	4	14
47	Stenographers	13	49	15	30	107
48	Teachers, not stated	1				1
49	Typewriters			1		1
50	Vegetable cleaners				6	6
51	Waitresses	102	422	136	13	673
52	Washer women				3	3
53	Wrappers			9		9
54	Miscellaneous, occupation not stated ..	8		28		36

The 23,763 male applicants are represented in 168 occupations, and the 13,730 female in 53 occupations, making a total of 37,493 applications for positions. Of this number, the North Side office registered 21.63 per cent, the South Side 34.66 per cent, the West Side 25.52 per cent, and the Peoria office 18.19 per cent. The West Side and the Peoria offices show an increase over last year, while the North and South Side offices show a decrease.

APPLICATIONS FOR HELP.

The applications registered by employers seeking to employ help are given in the following table:

TABLE 4—Work of All the Offices—Three in Chicago, One in Peoria—Receiving Applications for Help.

MALES.

Number.	OCCUPATIONS.	APPLICATIONS FOR HELP MADE TO OFFICES.				Total.
		North Side.	South Side.	West Side.	Peoria.	
	Grand totals.....	9,908	13,786	6,530	6,486	36,710
	Males.....	5,243	8,144	3,986	4,252	21,625
	Females.....	4,665	5,642	2,544	2,234	15,085
	Total males.....	5,243	8,144	3,986	4,252	21,625
1	Agents.....		20			20
2	Apprentices.....			1	11	12
3	Artists.....		1			1
4	Bakers.....		19	4	5	28
5	Barbers.....		4	1		5
6	Barnmen.....	53	96	20	106	275
7	Bartenders.....	1	12	3	1	17
8	Blacksmiths.....	61	19	8	15	103
9	Blacksmith helpers.....			3		3
10	Boiler makers.....		5			5
11	Bookkeepers.....	3	8		1	12
12	Bootblacks.....		49			49
13	Boxmakers.....		30	1		31
14	Boys.....	268		70	5	343
15	Boys, bell.....		12		26	38
16	Boys, cash.....		23			23
17	Boys, delivery.....		40		87	127
18	Boys, elevator.....				5	5
19	Boys, errand.....		43	1	33	77
20	Boys, factory.....				31	31
21	Boys, office.....		32	4	9	45
22	Brakemen.....				6	6
23	Brick layers.....	2		2		4
24	Butchers.....	3	22	2	1	28
25	Butlers.....	11				11
26	Cabinet makers.....	2	2	3		7
27	Can makers.....		2			2
28	Carpet layers.....		3			3
29	Canvassers.....	36		2	10	48
30	Carpenters.....	59	50	9	28	146
31	Carriage and wagon washers.....	2	14	5		21
32	Cashiers.....		2			2
33	Checkers.....			3		3
34	Cigar makers.....	1				1
35	Clerks.....				1	1
36	Clerks, drug.....		3			3
37	Clerks, dry goods.....		2			2
38	Clerks, general.....		11			11
39	Clerks, grocery.....		14		3	17
40	Clerks, office.....		10			10
41	Clerks, order.....				2	2
42	Clerks, shipping.....		21		2	23
43	Clerks, not stated.....	32		9		41
44	Coachmen.....	26	19	4	5	54
45	Coal miners.....				4	4
46	Coal weighers.....				2	2
47	Collectors.....	2	2	2	5	11
48	Cooks.....	46	219	19	69	353
49	Conductors.....	1				1
50	Dairy men.....			2	13	15
51	Deck hands.....					
52	Distributors.....		46	271	12	329
53	Dishwasher.....			3		3
54	Doormen.....					

Table 4—Continued.

Number.	OCCUPATION.	APPLICATIONS FOR HELP TO OFFICES—				Total.
		North Side.	South Side.	West Side.	Peoria.	
55	Drivers.....	214	.....	49	17	280
56	Electricians.....	3	8	.....	3	14
57	Elevatormen.....	10	54	4	.....	68
58	Engineers.....	3	21	3	10	37
59	Factory hands.....	584	184	357	282	1,407
60	Farmers.....	116	.....	.....	.....	116
61	Farm hands.....	.....	501	239	148	888
62	Firemen.....	4	28	11	10	53
63	Fiorists.....	.....	6	.....	.....	6
64	Gardeners.....	8	15	.....	18	41
65	Guards, railroad.....	.....	2	.....	.....	2
66	Harness makers.....	.....	4	.....	.....	4
67	Harvest hands.....	.....	.....	.....	53	53
68	Horseshoers.....	1	.....	1	.....	2
69	Hostlers.....	.....	11	30	4	45
70	Housemen.....	205	429	38	32	704
71	Cullers.....	.....	.....	.....	17	17
72	Interpreters.....	.....	2	.....	.....	2
73	Iron workers.....	.....	.....	6	1	7
74	Janitors.....	60	84	15	29	188
75	Kitchenwork.....	9	131	4	11	155
76	Laborers.....	2,532	3,740	2,307	2,480	11,059
77	Laborers, railroad.....	.....	236	.....	121	357
78	Lathe hands.....	1	.....	.....	.....	1
79	Laundrymen.....	.....	27	2	1	30
80	Linemen, not stated.....	.....	.....	.....	3	3
81	Machine hands.....	3	.....	6	.....	9
82	Machinists.....	32	23	28	9	90
83	Malsters.....	.....	.....	.....	2	2
84	Masons.....	1	.....	.....	.....	1
85	Metal workers.....	.....	.....	.....	1	1
86	Millwrights.....	.....	3	1	.....	4
87	Miners.....	.....	107	.....	.....	107
88	Models.....	.....	1	.....	.....	1
89	Molders.....	6	4	.....	10	20
90	Nurses.....	2	6	.....	2	10
91	Office help.....	1	.....	.....	6	7
92	Packers.....	8	37	2	2	49
93	Painters.....	89	19	7	21	136
94	Paper hangers.....	.....	1	1	1	3
95	Pantrymen.....	.....	1	.....	.....	1
96	Pan washers.....	.....	.....	.....	3	3
97	Pattern makers.....	.....	.....	.....	2	2
98	Pin setters.....	.....	27	.....	.....	27
99	Plasterers.....	.....	1	2	.....	3
100	Plumbers.....	.....	11	1	.....	12
101	Polishers, metal.....	.....	3	.....	.....	3
102	Porters.....	108	437	89	76	710
103	Pressers.....	.....	.....	.....	1	1
104	Pressmen.....	4	.....	.....	.....	4
105	Roofers.....	.....	.....	.....	2	2
106	Salesmen.....	11	11	.....	15	37
107	Shoemakers.....	.....	3	.....	.....	3
108	Shovelers.....	.....	.....	.....	34	34
109	Solicitors.....	12	15	23	9	59
110	Steamfitters.....	.....	6	.....	.....	6
111	Stenographers.....	1	14	.....	.....	15
112	Stock men.....	15	206	.....	.....	221
113	Stock keepers.....	.....	.....	52	.....	52
114	Stovemmen.....	.....	.....	.....	2	2
115	Tailors.....	.....	2	.....	.....	2
116	Teamsters.....	202	93	48	170	513
117	Tinsmith.....	5	10	3	.....	18
118	Upholsterers.....	.....	6	1	.....	7
119	Waiters.....	19	258	7	17	301
120	Watchmen.....	7	40	6	5	58
121	Wholesale men.....	.....	.....	1	.....	1
122	Window washers.....	211	147	120	.....	478
123	Woodworkers.....	.....	2	.....	.....	2
124	Yardmen.....	.....	82	4	74	160
125	Miscellaneous, not classified.....	101	.....	332	.....	433

Table 4—Concluded.
FEMALES.

Number.	OCCUPATION.	APPLICATIONS FOR HELP TO OFFICES—				Total.
		North Side.	South Side.	West Side.	Peoria.	
	Total females.....	4,665	5,642	2,544	2,234	15,085
1	Addressers.....	2			3	5
2	Agents		5			5
3	Attendants.....			2	3	5
4	Bookkeepers	2	3		1	6
5	Bottle labelers.....			2	1	3
6	Canvassers.....	9		6	12	27
7	Cashiers.....	1	2		2	5
8	Clerks.....	11	7	3	5	26
9	Chambermaids	246	437	167	104	954
10	Companions.....		1	2	3	6
11	Cooks.....	437	551	146	103	1,237
12	Dayworkers.....	355	188	28	94	665
13	Demonstrators.....			5	1	6
14	Dining room help.....	102		55	175	332
15	Dishwashers.....	267	422	110	152	951
16	Distributors.				2	2
17	Domestics			852		852
18	Factory work.....	325	347	273	142	1,087
19	Folders, circulars.....			10		10
20	General housework.....	1,944			1,041	2,985
21	Hotel help.....				4	4
22	Housekeepers.....	57	94	117	73	341
23	Housework		1,924			1,924
24	Janitresses.....	1		1	8	10
25	Kitchen help.....	224	319	114	99	756
26	Lady's maid.....				1	1
27	Laundresses	59	156	109	5	329
28	Matrons.....	1				1
29	Nurse girls.....				28	28
30	Nurses	90	79	36	15	220
31	Office work.....	2	59	5	22	88
31	Pantry work.....	27	48	16	22	113
33	Saleswomen.....		6			6
34	Scrubwomen	106	344	212	21	683
35	Seamstresses.....	47	43	63	15	168
36	Second work.....	170	104	21	43	338
37	Silver girls.....				2	2
38	Solicitors.....	12	10	18	3	43
39	Stenographers.....	2	11	6	7	26
40	Vegetable cleaners.....				7	7
41	Waitresses.....	148	482	132	13	775
42	Washer women.....				2	2
43	Wrappers.....			8		8
44	Miscellaneous occupation not stated...	18		25		43

During the year the total number of applications for help was 36,710. The number registered for male help was 21,625 represented in 123 occupations, while 15,085 were for female help distributed in 43 occupations.

The North Side office registered of this total number 26.99 per cent, the South Side 37.55 per cent, the West Side 17.79 per cent and the Peoria office 17.67 per cent. This is a decrease in percentage compared with last year for the North and South Side offices and a slight increase for the West Side and Peoria offices, the largest increase being in the Peoria office.

POSITIONS SECURED.

The following table accounts for the results derived from the applications recorded in the two preceding tables:

TABLE 5—Work of all the Offices—Three in Chicago and One in Peoria—Securing Positions.

MALES.

Number	OCCUPATIONS.	POSITIONS SECURED BY OFFICES—				Total.
		North Side.	South Side.	West Side.	Peoria.	
	Totals	7,776	12,128	5,751	6,069	31,724
	Males	4,006	7,380	3,920	4,099	19,405
	Females	3,770	4,748	1,831	1,970	12,319
	Total males,	4,006	7,380	3,920	4,099	19,405
	Males	3,922	7,380	3,912	4,099	19,313
	Positions filled from previous applications	84	.....	8	.....	92
1	Agents .....	.....	16	.....	.....	16
2	Apprentices .....	.....	.....	1	11	12
3	Artists .....	.....	1	.....	.....	1
4	Bakers .....	.....	19	4	5	28
5	Barbers .....	.....	4	1	.....	5
6	Barnmen	50	94	20	105	269
7	Bartenders	1	12	1	1	15
8	Blacksmiths	50	17	6	15	88
9	Blacksmith helpers .....	.....	.....	3	.....	3
10	Boiler makers .....	.....	5	.....	.....	5
11	Bookkeepers	3	8	.....	1	12
12	Bootblacks .....	.....	44	.....	.....	44
13	Boxmakers .....	.....	30	1	.....	31
14	Boys	194	.....	65	5	264
15	Boys, bell .....	.....	11	.....	22	33
16	Boys, cash .....	.....	21	.....	.....	21
17	Boys, delivery .....	.....	38	.....	84	122
18	Boys, elevator .....	.....	.....	.....	5	5
19	Boys, errand .....	.....	41	.....	30	71
20	Boys, factory .....	.....	.....	.....	26	26
21	Boys, office .....	.....	27	4	9	40
22	Brakemen .....	.....	.....	.....	6	6
23	Bricklayers .....	.....	.....	2	.....	2
24	Butchers	2	22	2	1	27
25	Butlers	7	.....	.....	.....	7
26	Cabinetmakers .....	.....	1	3	.....	4
27	Calceminers .....	.....	2	.....	.....	2
28	Carpet layers .....	.....	3	.....	.....	3
29	Canvassers	18	.....	.....	10	28
30	Carpenters	45	41	9	25	120
31	Carriage and wagon washers	2	13	4	.....	19
32	Cashiers .....	.....	2	.....	.....	2
33	Checkers .....	.....	.....	3	.....	3
34	Cigarmakers	1	.....	.....	.....	1
35	Clerks .....	.....	.....	.....	1	1
36	Clerks, drug .....	.....	3	.....	.....	3
37	Clerks, dry goods .....	.....	2	.....	.....	2
38	Clerks, general .....	.....	11	.....	.....	11
39	Clerks, grocery .....	.....	14	.....	3	17
40	Clerks, office .....	.....	10	.....	.....	10
41	Clerks, order .....	.....	.....	.....	2	2
42	Clerks, shipping .....	.....	21	.....	2	23
43	Clerks, not stated	31	.....	9	.....	40
44	Coachmen	26	18	4	5	53
45	Coal miners .....	.....	.....	.....	4	4
46	Coal weighers .....	.....	.....	.....	2	2
47	Collectors	2	2	2	5	11
48	Cooks	32	213	16	69	330
49	Conductors	1	.....	.....	.....	1
50	Darymen .....	.....	.....	.....	13	13

Table 5—Continued.

Number.	OCCUPATIONS.	POSITIONS SECURED BY OFFICES—				Total.
		North Side.	South Side.	West Side.	Peoria.	
51	Deck hands		2			2
52	Dishwashers	42	271	12	59	384
53	Distributors				2	2
54	Doormen		3			3
55	Drivers	182		47	17	246
56	Electricians	2	7		1	10
57	Elevator men	10	54	3		67
58	Engineers	1	20	3	9	33
59	Factory hands	461	184	357	200	1,202
60	Farmers	84				84
61	Farm hands		301	224	145	700
62	Firemen	4	28	11	10	53
63	Florists		6			6
64	Gardeners	7	15		13	35
65	Guards railroad		2			2
66	Harness makers		4			4
67	Harvest hands				40	40
68	Horseshoers	1		1		2
69	Hostlers		11	30	4	45
70	Housemen	198	427	36	31	692
71	Ice cutters				17	17
72	Interpreters		2			2
73	Iron workers			6	1	7
74	Janitors	54	83	14	29	180
75	Kitchenwork	9	130	4	11	154
76	Laborers	1,737	3,285	2,308	2,306	9,636
77	Laborers, railroad		238		115	353
78	Lathe hands	1				1
79	Laundrymen		27		1	28
80	Linenmen, not stated				3	3
81	Machine hands	2		4		6
82	Machinists	19	23	1	9	52
83	Malsters				1	1
84	Masons	1				1
85	Metal workers				1	1
86	Millwrights		3	1		4
87	Miners		17			17
88	Models		1			1
89	Molders		4		8	12
90	Nurses	2	6		2	10
91	Office help	1			6	7
92	Packers	8	37	2	2	49
93	Painters	78	18	6	21	123
94	Paper hangers		1	1	1	3
95	Pantrymen		1			1
96	Pan washers				3	3
97	Pattern makers				3	3
98	Pin setters		27			27
99	Plasterers		1	2		3
100	Plumbers		10	1		11
101	Polishers, metal		3			3
102	Porters	102	435	86	76	699
103	Pressers				1	1
104	Pressmen	1				1
105	Roofers				2	2
106	Salesmen	3	9		15	27
107	Shoemakers		3			3
108	Shovelers				34	34
109	Solicitors		6	14	9	29
110	Steam fitters		1			1
111	Stenographers	1	14			15
112	Stockmen	12	174			186
113	Stock keepers			50		50
114	Stovemmen				2	2
115	Tailors		2			2
116	Teamsters	162	91	48	168	469
117	Thsmiths	3	8	2		13
118	Upholsterers		6			6
119	Waiters	10	257	1	17	285
120	Watchmen	7	40			47
121	Wholesale men					

Table 5—Concluded.

OCCUPATIONS.	POSITIONS SECURED BY OFFICES—				Total.
	North Side.	South Side.	West Side.	Peoria.	
Window washers.....	161	144	120	.....	425
Wood workers.....	.....	2	.....	.....	2
Yardmen.....	.....	82	4	72	158
Miscellaneous, not classified.....	87	.....	321	.....	408

FEMALES.

Total.....	3,770	4,748	1,831	1,970	12,319
Females.....	3,648	4,748	1,830	1,970	12,196
From previous applications.....	122	.....	1	.....	123
Addressers.....	1	.....	.....	3	4
Attendants.....	.....	.....	1	3	4
Bookkeepers.....	2	2	.....	1	5
Bottle labelers.....	.....	.....	2	1	3
Canvassers.....	.....	.....	3	12	15
Cashiers.....	1	2	.....	2	5
Clerks.....	7	7	1	5	20
Chambermaids.....	207	404	161	104	876
Companions.....	.....	1	2	3	6
Cooks.....	339	458	115	88	1,000
Dayworkers.....	341	184	28	94	647
Demonstrators.....	.....	.....	.....	1	1
Dining room help.....	84	.....	46	174	304
Dishwashers.....	231	403	103	151	888
Distributors.....	.....	.....	.....	2	2
Domestics.....	.....	.....	478	.....	478
Factory work.....	71	237	182	142	632
Folders, circulars.....	.....	.....	7	.....	7
General housework.....	1,634	.....	.....	800	2,434
Hotel help.....	.....	.....	.....	4	4
Housekeepers.....	44	75	71	73	263
Housework.....	.....	1,486	.....	.....	1,486
Janitresses.....	1	.....	1	8	10
Kitchen help.....	193	304	106	99	702
Lady's maid.....	.....	.....	.....	1	1
Laundresses.....	50	137	103	5	295
Matrons.....	1	.....	.....	.....	1
Nurse girls.....	.....	.....	.....	28	28
Nurses.....	71	67	29	13	180
Office work.....	1	59	5	22	87
Pantry work.....	20	47	13	22	102
Saleswomen.....	.....	2	.....	.....	2
Scrubwomen.....	84	323	192	21	620
Seamstresses.....	30	39	16	15	100
Second work.....	134	89	16	40	279
Silver girls.....	.....	.....	.....	2	2
Solicitors.....	.....	1	8	3	12
Stenographers.....	1	11	4	7	23
Vegetable cleaners.....	.....	.....	.....	6	6
Washerwomen.....	.....	.....	.....	2	2
Waitresses.....	92	410	106	13	621
Wrappers.....	.....	.....	8	.....	8
Miscellaneous, occupation not stated...	8	.....	23	.....	31

The net results of the year's work of the four offices is recorded in this table and shows that the total number of applicants, for whom positions were secured, to be 31,724 and at the same time supplying is number to those wanting help. Of this number 19,405 or 61.17 per cent were males, represented in 124 different occupations, and 319, or 38.83 per cent, were females, placed in 42 different occupations.

The North Side office performed of this work 24.51 per cent; the South Side office 38.23 per cent; the West Side office 18.13 per cent, and the Peoria office 19.13 per cent.

The following table of percentages of applications for employment and help and for positions secured shows the work of the four offices and is presented for comparison.

OFFICERS.	PERCENTAGE OF—		
	Applications for employment.	Applications for help.	Positions secured.
North Side	21.63	26.99	24.51
South Side	34.66	37.55	38.23
West Side	25.52	17.79	18.13
Peoria	18.19	17.67	19.13
Total	100.00	100.00	100.00

The combined work of all the offices for the year is presented in the following table, showing the applications filed for employment and help, also the number of positions secured in all the occupations represented, with the percentages to both classes of applications:

TABLE 6—*Number of Applications for Employment, Applications for Help, Positions Secured, also Percentages of Positions Secured Applicants for Employment and Applicants for Help.*

Number.	OCCUPATIONS.	APPLICATIONS FOR—		Number of positions se-cured.	PERCENTAGES OF—	
		Employ-ment.	Help.		Positions secured applicants for employ-ment.	Positions filled applicants for help.
	Grand totals	37,493	36,710	*31,724	84.61	86.42
	Males	23,763	21,625	†19,405	81.66	89.73
	Females	13,730	15,085	‡12,319	89.72	81.66
	Males	23,763	21,625	19,405	81.66	89.73
1	Agents	32	20	16	50.00	75.00
2	Any light work	31	.....	.....	.....	.....
3	Apprentices	47	12	12	25.53	100.00
4	Architects	1	.....	.....	.....	.....
5	Artists	4	1	1	25.00	100.00
9	Bakers	54	28	28	51.85	100.00
7	Barbers	8	5	5	62.50	100.00
8	Barnmen	302	275	269	89.07	97.82
9	Bartenders	39	17	15	38.46	88.24
10	Bench hands	23	.....	.....	.....	.....
11	Blacksmiths	113	103	88	77.88	85.44
12	Blacksmith helpers	15	3	3	20.00	100.00
13	Boiler makers	7	5	5	71.43	100.00
14	Bookbinders	4	.....	.....	.....	.....
15	Bookkeepers	66	12	12	18.18	100.00

*Including 215 applications filed the previous year.
†Including 92 applications filed the previous year.
‡Including 123 applications filed the previous year.

Table 6—Continued.

	OCCUPATIONS.	APPLICATIONS FOR—		Number of positions secured.	PERCENTAGES OF—	
		Employment.	Help.		Positions secured applicants for employment.	Positions filled applicants for help.
6	Bootblacks	46	49	44	95.65	89.80
7	Boxmakers	38	31	31	81.58	100.00
8	Boys.....	358	343	264	73.74	76.97
9	Boys, bell.....	37	38	33	89.19	86.84
0	Boys, cash	23	23	21	91.30	91.30
1	Boys, delivery.....	133	127	122	91.73	96.06
2	Boys, elevator.....	6	5	5	83.33	100.00
3	Boys, errand.....	76	77	71	93.42	92.21
4	Boys, factory	28	31	26	92.86	83.87
5	Boys, office.....	55	45	40	72.73	88.89
6	Brakemen	10	6	6	60.00	100.00
7	Brass finishers.....	5				
8	Bricklayers	5	4	2	40.00	50.00
9	Bridge builders.....	1				
0	Butchers.....	38	28	27	71.05	96.43
1	Butlers.....	11	11	7	63.64	63.64
2	Cabinet makers	22	7	4	18.18	57.14
3	Calciminers	2	2	2	100.00	100.00
4	Candy makers.....	2				
5	Canvassers.....	35	48	28	80.00	58.33
6	Carpet layers.....	4	3	3	75.00	100.00
7	Carpenters	193	146	120	75.65	82.19
8	Carriage and wagon washers.....	21	21	19	90.48	90.48
9	Cashiers	3	2	2	66.67	100.00
0	Checkers.....	5	3	3	60.00	100.00
1	Cigar makers.....	2	1	1	50.00	100.00
2	Circular distributors.....	1				
3	Cleaners, harness.....	2				
4	Clerks	3	1	1	33.33	100.00
5	Clerks, bill.....	2				
6	Clerks, drug	3	3	3	100.00	100.00
7	Clerks, dry goods.....	2	2	2	100.00	100.00
8	Clerks, general	55	11	11	20.00	100.00
9	Clerks, grocery	31	17	17	54.84	100.00
0	Clerks, hotel.....	4				
1	Clerks, office.....	20	10	10	50.00	100.00
2	Clerks, order.....	2	2	2	100.00	100.00
3	Clerks, not stated.....	286	41	40	13.99	97.56
4	Clerks, shipping.....	41	23	23	56.10	100.00
5	Coachmen.....	76	54	53	69.61	98.15
6	Coal heavers.....	1				
7	Coal miners	5	4	4	80.00	100.00
8	Coal weighers.....	2	2	2	100.00	100.00
9	Collectors	41	11	11	26.83	100.00
0	Compositors	2				
1	Cooks.....	435	353	330	75.86	93.48
2	Conductors	2	1	1	50.00	100.00
3	Core makers.....	7				
4	Dairymen	14	13	13	92.86	100.00
5	Deck hands.....	2	2	2	100.00	100.00
6	Dishwashers.....	415	389	384	92.53	98.72
7	Distributors	52	2	2	100.00	100.00
8	Door men.....	3	3	3	100.00	100.00
9	Draughtsmen	5				
0	Drill pressmen	50				
1	Drivers	348	280	246	70.69	87.86
2	Electricians	47	14	12	25.53	85.71
3	Elevatormen	158	68	67	42.41	98.53
4	Engineers	109	37	33	30.28	89.19
5	Factory hands.....	1,758	1,407	1,271	72.30	90.33
6	Farmers	99	116	84	84.85	72.14
7	Farm hands.....	923	888	760	82.34	85.59
8	Firemen	171	53	53	30.99	100.00
9	Florists	11	6	6	54.55	100.00
0	Foremen	3				
1	Foundrymen.....	3				
2	Furnace tenders.....	1				

Table 6—Continued.

Number.	OCCUPATIONS.	APPLICATIONS FOR—		Number of positions secured.	PERCENTAGES OF—	
		Employment.	Help.		Positions secured applicants for employment.	Positions filled applicants for help.
83	Gardeners	44	41	35	79.55	85.37
84	Glass workers	1	.....	.....	.....	.....
85	Guards, railroad	2	2	2	100.00	100.00
86	Harness makers	6	4	4	66.67	100.00
87	Harvest hands	40	53	40	100.00	75.47
88	Horseshoers	3	2	2	66.67	100.00
89	Hostlers	61	45	45	73.77	100.00
90	Housemen	825	704	687	83.27	97.59
91	Ice cutters	17	17	17	100.00	100.00
92	Interpreters	2	2	2	100.00	100.00
93	Iron workers	23	7	7	30.43	100.00
94	Janitors	293	188	180	61.43	95.74
95	Kitchenwork	168	155	154	91.67	99.35
96	Laborers	10,111	11,059	9,721	96.17	87.93
97	Laborers, railroad	351	357	351	100.00	98.32
98	Lathe hands	15	1	1	6.67	100.00
99	Lathers	1	.....	.....	.....	.....
100	Laundrymen	44	30	28	63.64	93.33
101	Linemen, electrical	2	.....	.....	.....	.....
102	Linemen, not stated	4	3	3	75.00	100.00
103	Locksmiths	5	.....	.....	.....	.....
104	Machine hands	131	9	6	4.58	66.67
105	Machinists	240	90	76	31.67	84.44
106	Masons	1	1	1	100.00	100.00
107	Malsters	1	2	1	100.00	50.00
108	Metal workers	11	1	1	9.09	100.00
109	Millers	1	.....	.....	.....	.....
110	Millwrights	10	4	4	40.00	100.00
111	Miners	17	107	17	100.00	15.89
112	Models	1	1	1	100.00	100.00
113	Molders	18	20	12	66.67	60.00
114	Nurses	15	10	10	66.67	100.00
115	Office help	31	7	7	22.58	100.00
116	Oilers	7	.....	.....	.....	.....
117	Packers	110	49	49	44.55	100.00
118	Painters	169	136	123	72.78	90.44
119	Paper hangers	7	3	3	42.86	100.00
120	Pantrymen	3	1	1	33.33	100.00
121	Pan washers	3	3	3	100.00	100.00
122	Pattern makers	8	2	2	25.00	100.00
123	Pharmacists	1	.....	.....	.....	.....
124	Photographers	2	.....	.....	.....	.....
125	Pin setters	27	27	27	100.00	100.00
126	Pipe fitters	1	.....	.....	.....	.....
127	Plasterers	6	3	3	50.00	100.00
128	Plumbers	14	12	11	78.57	91.67
129	Polishers, metal	4	3	3	75.00	100.00
130	Polishers, not stated	3	.....	.....	.....	.....
131	Porters	877	710	699	79.70	98.45
132	Pressers	3	1	1	33.33	100.00
133	Pressmen	8	4	4	50.00	100.00
134	Printers	16	.....	.....	.....	.....
135	Punch press hands	34	.....	.....	.....	.....
136	Railroadmen	5	.....	.....	.....	.....
137	Roofers	2	2	2	100.00	100.00
138	Sailors	1	.....	.....	.....	.....
139	Salesmen	89	37	27	30.34	72.97
140	Sawyers	5	.....	.....	.....	.....
141	Shoemakers	9	3	3	33.33	100.00
142	Shovelers	34	34	34	100.00	100.00
143	Silvermen	1	.....	.....	.....	.....
144	Solicitors	33	59	29	87.88	49.15
145	Steam fitters	13	6	1	7.69	16.67
146	Stenographers	32	15	15	46.88	100.00
147	Stockmen	199	221	186	93.47	84.16
148	Stockkeepers	67	52	50	74.63	96.15
149	Stone cutters	2	.....	.....	.....	.....
150	Stovemenn	3	.....	.....	.....	.....
151	Tailors	8	.....	.....	66.67	100.00

Table 6—Continued.

OCCUPATIONS.	APPLICATIONS FOR—		Number of positions secured.	PERCENTAGES OF—	
	Employment.	Help.		Positions secured applicants for employment.	Positions filled applicants for help.
Teachers, not stated	1				
Teamsters	585	513	469	80.17	91.42
Telegraphers	1				
Timekeepers	2				
Tinsmiths	27	18	13	48.15	72.22
Tool makers	6				
Truckmen	13				
Upholsterers	8	7	6	75.00	83.71
Vise hands	4				
Waiters	367	301	297	80.93	96.67
Watch makers	1				
Watchmen	150	58	58	38.67	100.00
Wholesale men	22	1	1	4.55	100.00
Window washers	433	478	425	98.15	88.94
Wood finishers	7				
Wood workers	16	2	2	12.50	100.00
Yardmen	167	160	138	94.61	98.75
Miscellaneous, not classified	602	433	406	67.77	94.23
FEMALES	13,730	15,065	12,319	89.72	81.06
Addressers	14	5	4	28.57	80.00
Agents	1	5			
Apprentices	1				
Attendants	4	5	4	100.00	80.00
Bookkeepers	39	6	5	12.82	83.33
Bottle labelers	8	3	3	37.50	100.00
Canvassers	18	27	13	83.33	33.58
Cashiers	34	5	5	14.71	100.00
Clerks	48	26	20	41.67	78.92
Collectors	1				
Chambermaids	964	954	876	90.87	91.82
Companions	13	6	6	46.15	100.00
Cooks	1,123	1,237	1,000	89.05	80.84
Copyists	1				
Dayworkers	859	665	647	75.32	97.39
Demonstrators	5	6	1	20.00	16.67
Dining room help	318	332	304	95.60	91.57
Dishwashers	935	951	888	94.97	93.34
Distributors	2	2	2	100.00	100.00
Domestics	499	852	478	95.79	58.10
Factory work	744	1,067	632	84.95	58.14
Folders, circulars	12	10	7	58.33	70.00
General housework	2,503	2,985	2,434	97.24	81.54
Governesses	2				
Hotel help	9	4	4	44.44	100.00
Housekeepers	377	341	263	69.76	77.13
House work	1,524	1,924	1,486	97.51	77.23
Janitresses	20	10	10	50.00	100.00
Kitchen help	755	756	702	92.98	92.86
Lady's maid	3	1	1	33.33	100.00
Laundresses	326	329	295	90.49	89.65
Mail order help	2				
Matrons	1	1	1	100.00	100.00
Milliners	1				
Nurses	251	220	180	71.71	81.82
Nurse girls	31	28	28	90.82	100.00
Office work	217	88	87	40.09	98.88
Pantry work	121	113	102	84.50	90.27
Proof readers	2				
Reception	2				
Saleswomen	2	6	2	100.00	33.33
Scrubwomen	656	683	620	94.51	90.78
Seamstresses	115	168	100	86.96	58.52
Second work	315	338	279	88.57	82.54
Silver girls	2	2	2	100.00	100.00
Solicitors	14	43	12	85.71	27.01
Stenographers	107	28	23	21.50	88.47

Table 6—Concluded.

Number.	OCCUPATIONS.	APPLICATIONS FOR—		Number of positions secured.	PERCENTAGES OF—	
		Employment.	Help.		Positions secured applicants for employment.	Positions filled applicants for help.
48	Teachers, not stated.....	1	.....	.....	.....	.....
49	Typewriters.....	1	.....	.....	.....	.....
50	Vegetable cleaners.....	6	7	6	100.00	85.71
51	Waitresses.....	673	775	621	92.27	82.69
52	Washer women.....	3	2	2	66.67	100.00
53	Wrappers.....	9	8	8	88.89	100.00
54	Miscellaneous, occupation not stated	36	43	31	86.11	72.09

Directing attention to the percentages shown at the head of this table, a very gratifying result is presented of the work accomplished by the offices during the year. It will be seen that 84.61 per cent of those applying for work were secured positions or, in other words, out of every ten applications for situations eight persons were placed in positions, this supplied 86.42 per cent of the persons registering and wanting help. It is also shown here that 81.66 per cent of the males applying for positions were placed, filling 89.73 per cent of the calls for help. These last percentages are exactly reversed as to females.

From the preceding table a selection is made of 28 leading occupations for males and 20 for females. These are arranged in the same form and order as table 6, being supplemental to that table:

TABLE 7—Summary of the Leading Occupations, Showing Applications for Employment and Help, With Percentages.

MALES.

Number.	OCCUPATIONS.	APPLICATIONS FOR—		Number of positions secured.	PERCENTAGES—	
		Employment.	Help.		Securing work.	Securing help.
	Grand totals.....	33,281	32,957	28,542	85.76	86.60
	Males.....	21,353	20,023	17,978	84.19	89.79
	Females.....	11,928	12,934	10,564	88.56	81.68
	Males.....	21,353	20,023	17,978	84.20	89.80
1	Barnmen.....	302	275	269	89.07	97.82
2	Bell boys and other occupations.....	716	689	582	81.28	84.47
3	Blacksmiths.....	113	103	88	77.88	85.44
4	Carpenters.....	193	148	120	75.35	82.19
5	Clerks, all kinds.....	449	110	109	24.28	99.09

Table 7—Continued.

Number.	OCCUPATIONS.	APPLICATIONS FOR—		Number of positions secured.	PERCENTAGES—	
		Employment.	Help.		Securing work.	Securing help.
6	Cooks.....	435	353	330	75.86	93.48
7	Dishwashers and kitchen work.....	583	544	538	92.28	98.90
8	Drivers.....	348	280	246	70.69	87.86
9	Elevatormen.....	158	68	67	42.41	98.53
10	Engineers	109	37	33	30.28	89.19
11	Factory hands.....	1,758	1,407	1,271	72.30	90.33
12	Farm hands.....	923	888	760	82.34	85.59
13	Firemen.....	171	53	53	30.99	100.00
14	Houseman	825	704	687	83.27	97.59
15	Janitors	293	188	180	61.43	95.74
16	Laborers.....	10,111	11,059	9,721	96.17	87.93
17	Laborers, railroad.....	351	357	351	100.00	98.32
18	Machinists and helpers	371	99	82	22.10	82.83
19	Packers	110	49	49	44.55	100.00
20	Painters.....	169	136	123	72.78	90.44
21	Porters.....	877	710	699	79.70	98.45
22	Salesmen	89	37	27	30.34	72.97
23	Stockmen.....	199	221	186	93.47	84.16
24	Teamsters	585	513	469	80.17	91.42
25	Waiters	367	301	297	80.93	98.67
26	Watchmen.....	150	58	58	38.67	100.00
27	Window washers.....	433	478	425	98.15	88.91
28	Yardmen.....	167	160	158	94.61	98.75
	FEMALES.....	11,928	12,934	10,564	88.56	81.68
1	Chambermaids.....	964	954	876	90.87	91.82
2	Cooks.....	1,123	1,237	1,000	89.05	80.84
3	Daywork.....	859	665	647	75.32	97.29
4	Diningroom help	318	332	304	94.60	91.57
5	Dishwashers.....	935	951	888	94.97	93.34
6	Domestics	499	852	478	95.79	56.10
7	Factory work.....	744	1,087	632	84.95	58.14
8	General housework	2,503	2,985	2,434	97.24	81.54
9	Housekeepers.....	377	341	263	69.76	77.13
10	Kitchen help.....	755	756	702	92.98	92.86
11	Laundresses	326	329	295	90.49	89.65

Table 7—Concluded.

Number.	OCCUPATIONS.	APPLICATIONS FOR—		Number of positions secured.	PERCENTAGES—	
		Employment.	Help.		Securing work.	Securing help.
12	Nurses.....	251	220	180	71.71	81.82
13	Nurse girls.....	31	28	28	90.32	100.00
14	Office work, bookkeeping.....	256	94	92	35.94	97.87
15	Pantry work.....	121	113	102	84.30	90.27
16	Scrub women.....	656	683	620	94.51	90.78
17	Seamstresses.....	115	168	100	86.96	59.52
18	Second work.....	315	338	279	88.57	82.54
19	Stenographers.....	107	26	23	21.50	88.47
20	Waitresses.....	673	775	621	92.27	82.69

The 48 occupations here presented account for 33,281 or 88.77 per cent of all applications filed for employment, and 32,957 or 89.78 per cent of all applications for help. These percentages are less than shown for last year. The last two columns of the table show the percentages of those securing work, also those securing help in each occupation, for all occupations, and for both males and females. In several of the occupations where a small per cent of the applicants for work secured positions, a very large per cent of the applications for help were filled.

In this connection the results are shown of the work of Free Employment offices in nine other states and for this State for the year 1094:

STATES.	APPLICATIONS FOR—		POSITIONS SECURED TO APPLICANTS FOR EMPLOYMENT.	
	Employment.	Help.	Number.	Percentage.
Connecticut.....	12,723	9,285	7,866	61.83
Illinois.....	37,493	36,710	31,724	84.61
Kansas.....	4,512	522	3,903	86.50
Maryland.....	1,316	362	529	40.20
Missouri.....	15,942	36,443	9,047	56.75
Montana.....	11,104	7,805	7,125	64.16
New York.....	6,650	4,540	4,642	69.80
Ohio.....	19,333	23,074	15,975	82.63
West Virginia.....	2,330	2,008	1,785	76.31
Wisconsin.....	7,362	7,981	7,325	89.53
Totals.....	118,774	128,728	89,921	75.77

The figures shown in this table were secured direct through the Bureaus of labor of the several states and show the number of applications for employment and for help, the number of positions secured and the percentages of positions secured to applicants for employment.

It will be seen that the business transacted by the offices of Illinois exceeded by far that of any of the other states. The most notable is the number of positions secured to applicants for situations. The lowest percentage was 40.20, in Maryland, while Wisconsin shows 99.5, the highest. The average for all the states was 75.71. Illinois placed in positions 35.28 per cent of the total of all the states. The next table presented is a classification of the occupations, nine classes for males and seven for females. The number and percentages of applications for employment and help are given, also the number and percentages of positions secured.

TABLE 8—Classified Occupations of Applicants for Employment, Positions Secured and Applications for Help, in the Four Offices, with Percentages in Each Class.

MALES.

CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.		POSITIONS SECURED.		APPLICATIONS FOR HELP.	
	Number.	Percent-ages of each class.	Number.	Percent-ages of each class.	Number.	Percent-ages of each class.
Males	23,763	.....	*19,405	.....	21,625	.....
AGRICULTURAL	1,330	100.00	1,124	100.00	1,338	100.00
Dairy men	14	1.05	13	1.16	13	.97
Farmers	99	7.44	84	7.47	116	8.69
Farm hands	923	69.40	760	67.62	888	66.36
Florists	11	.83	6	.53	4	.45
Gardeners	44	3.31	35	3.11	41	3.06
Harvest hands	40	3.0	41	3.56	53	3.96
Stockmen	199	14.98	186	16.55	221	16.51
CLERICAL	618	100.00	188	100.00	191	100.00
Bookkeepers	66	10.68	12	6.38	12	6.28
Clerks, bill	2	.32	.....	.....	.....	.....
Clerks, drug	3	.49	3	1.60	3	1.57
Clerks, dry goods	2	.32	2	1.06	2	1.05
Clerks, general	346	55.99	54	28.72	55	28.80
Clerks, grocery	31	5.02	17	9.04	17	8.90
Clerks, hotel	4	.65	.....	.....	.....	.....
Clerks, office	20	3.24	10	5.33	10	5.24
Clerks, shipping	41	6.63	23	12.23	23	12.04
Coal weighers	2	.32	2	1.06	2	1.05
Stenographers	32	5.18	5	2.63	15	7.85
Stockkeepers	67	10.84	50	26.60	52	27.22
Timekeepers	2	.32	.....	.....	.....	.....

*Including 92 positions secured from applications filed the previous year.

Table 8—Continued.

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.		POSITIONS SECURED.		APPLICATIONS FOR HELP.	
		Number.	Percent-ages of each class.	Number.	Percent-ages of each class.	Number.	Percent-ages of each class.
	COMMERCIAL	482	100.00	305	100.00	381	100.00
1	Agents	32	6.64	16	5.24	20	5.25
2	Boys, cash	23	4.78	21	6.89	23	6.04
3	Boys, delivery	133	27.59	122	40.00	127	33.33
4	Boys, office	55	11.41	40	13.14	45	11.81
5	Canvassers	35	7.26	28	9.18	48	12.60
6	Cashiers	3	.62	2	.65	2	.52
7	Checkers	5	1.04	3	.98	3	.79
8	Collectors	41	8.51	11	3.61	11	2.89
9	Distributors	3	.62	2	.65	2	.52
10	Doormen	3	.62	3	.98	3	.79
11	Draughtsmen	5	1.04	.....	.....	.....	.....
12	Salesmen	89	18.46	27	8.85	37	9.71
13	Solicitors	33	6.85	29	9.50	59	15.49
14	Wholesalemen	22	4.56	1	.33	1	.26
	DOMESTIC SERVICE	3,108	100.00	2,565	100.00	2,630	100.00
1	Butlers	11	.35	7	.27	11	.42
2	Carpet layers	4	.13	3	.12	3	.11
3	Cooks	435	14.00	330	12.87	353	13.42
4	Dishwashers	415	13.35	384	14.97	389	14.79
5	Housemen	825	26.54	687	26.78	704	26.78
6	Kitchenwork	168	5.41	154	6.00	155	5.89
7	Pantrymen	3	.10	1	.04	1	.04
8	Panwashers	3	.10	3	.12	3	.11
9	Porters	877	28.22	699	27.25	710	27.00
10	Waiters	367	11.80	297	11.58	301	11.44
	MANUAL LABOR	10,497	100.00	10,106	100.00	11,450	100.00
1	Coal heavers	1	.01	.....	.....	.....	.....
2	Laborers	10,111	96.32	9,721	96.19	11,059	96.58
3	Laborers, railroad	351	3.34	351	3.47	357	3.12
4	Shovelers	34	.33	34	.34	34	.30
	PROESSIONAL	22	100.00	11	100.00	11	100.00
1	Architects	1	4.55	.....	.....	.....	.....
2	Artists	4	18.18	1	9.09	1	9.09
3	Nurses	15	68.17	10	90.91	10	90.91
4	Pharmacists	1	4.55	.....	.....	.....	.....
5	Teachers	1	4.55	.....	.....	.....	.....
	TRADES	1,959	100.00	819	100.00	1,016	100.00
1	Bakers	54	2.76	28	3.42	28	2.76
2	Barbers	8	.41	5	.61	5	.49
3	Bartenders	39	1.99	15	1.83	17	1.67
4	Bench hands	23	1.17	.....	.....	.....	.....
5	Blacksmiths	113	5.77	88	10.75	103	10.13
6	Boilermakers	7	.36	5	.61	5	.49
7	Bookbinders	4	.20	.....	.....	.....	.....
8	Boxmakers	38	1.94	31	3.79	31	3.05
9	Brass finishers	5	.26	.....	.....	.....	.....
10	Bricklayers	5	.26	2	.24	4	.39
11	Bridge builders	1	.05	.....	.....	.....	.....
12	Butchers	38	1.94	27	3.30	28	2.76
13	Cabinet makers	22	1.12	4	.49	7	.69
14	Calceiminers	2	.10	2	.24	2	.20
15	Candy makers	2	.10	.....	.....	.....	.....
16	Carpenters	193	9.85	120	14.66	146	14.36
17	Cigar makers	2	.10	1	.12	1	.10
18	Coal miners	22	1.12	21	2.58	111	10.92

Table 8—Continued.

CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.		POSITIONS SECURED.		APPLICATIONS FOR HELP.	
	Number.	Percent-ages of each class.	Number.	Percent-ages of each class.	Number.	Percent-ages of each class.
Compositors	2	.10	.....	.....	.....	.....
Coremakers	7	.36	.....	.....	.....	.....
Deck hands	2	.10	2	.24	2	.20
Drill pressmen	50	2.55	.....	.....	.....	.....
Electricians	47	2.40	12	1.47	14	1.38
Engineers	109	5.56	33	4.03	37	3.64
Firemen	171	8.73	53	6.47	53	5.22
Glassworkers	1	.05	.....	.....	.....	.....
Harness makers	6	.31	4	.49	4	.39
Horseshoers	3	.15	2	.24	2	.20
Ironworkers	23	1.17	7	.85	7	.69
Lathe hands	15	.77	1	.12	1	.10
Lathers	1	.05	.....	.....	.....	.....
Laundrymen	44	2.25	28	3.42	30	2.95
Locksmiths	5	.26	.....	.....	.....	.....
Machine hands	131	6.69	6	.73	9	.89
Machinists	240	12.25	76	9.19	90	8.86
Masons	1	.05	1	.12	1	.10
Metal workers	11	.56	1	.12	1	.10
Millers	1	.05	.....	.....	.....	.....
Millwrights	10	.51	4	.49	4	.39
Molders	18	.92	12	1.47	20	1.97
Packers	110	5.62	49	5.98	49	4.82
Painters	169	8.63	123	15.02	136	13.38
Paper hangers	7	.26	3	.37	3	.30
Pattern makers	8	.41	2	.24	2	.20
Photographers	2	.10	.....	.....	.....	.....
Pipefitters	1	.05	.....	.....	.....	.....
Plasterers	6	.31	3	.37	3	.30
Plumbers	14	.71	11	1.34	12	1.18
Polishers, metal	4	.20	3	.37	3	.30
Polishers, not stated	3	.15	.....	.....	.....	.....
Pressers	3	.15	1	.12	1	.10
Pressmen	8	.41	4	.49	4	.39
Printers	16	.83	.....	.....	.....	.....
Punch press hands	34	1.74	.....	.....	.....	.....
Roofers	2	.10	2	.24	2	.20
Sawyers	5	.26	.....	.....	.....	.....
Shoemakers	9	.46	3	.37	3	.30
Steam fitters	13	.66	1	.12	6	.59
Stone cutters	2	.10	.....	.....	.....	.....
Tailors	8	.41	2	.24	2	.20
Telegraphers	1	.05	.....	.....	.....	.....
Tin smiths	27	1.38	13	1.59	18	1.76
Toolmakers	6	.31	.....	.....	.....	.....
Upholsterers	8	.41	6	.73	7	.69
Watchmakers	1	.05	.....	.....	.....	.....
Wood workers	16	.82	2	.24	2	.20
TRANSPORTATION	1,561	100.00	1,156	100.00	1,242	100.00
Barnmen	302	19.35	269	23.27	275	22.14
Brakemen	10	.64	6	.52	6	.48
Coachmen	76	4.87	53	4.58	54	4.35
Conductors	2	.13	1	.09	1	.08
Drivers	348	22.29	246	21.28	280	22.55
Elevator men	158	10.12	67	5.80	68	5.48
Hostlers	61	3.91	45	3.89	45	3.62
Railroad men	5	.32	.....	.....	.....	.....
Sailors	1	.06	.....	.....	.....	.....
Teamsters	585	37.48	469	40.57	513	41.30
Truckman	13	.83	.....	.....	.....	.....

Table 8—Continued.

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.		POSITIONS SECURED.		APPLICATIONS FOR HELP.	
		Number.	Percent-ages of each class.	Number.	Percent-ages of each class.	Number.	Percent-ages of each class.
	MISCELLANEOUS	4,186	100.00	3,039	100.00	3,336	100.00
1	Apprentices.....	47	1.12	12	.39	12	.36
2	Blacksmith helpers.....	15	.36	3	.10	3	.09
3	Bootblacks	46	1.10	44	1.45	49	1.46
4	Boys	358	8.56	264	8.69	343	10.19
5	Boys, bell	37	.88	33	1.09	38	1.13
6	Boys, elevator	6	.14	5	.16	5	.15
7	Boys, errand	76	1.82	71	2.34	77	2.29
8	Boys, factory	28	.67	26	.86	31	.92
9	Carriage & wagon washers	21	.50	19	.63	21	.62
10	Cleaners, harness	2	.05				
11	Factory hands	1,758	42.01	1,271	41.81	1,407	41.80
12	Foremen.....	3	.07				
13	Foundry men.....	3	.07				
14	Furnace tenders	1	.02				
15	Guards, railroad.....	2	.05	2	.07	2	.06
16	Ice cutters.....	17	.41	17	.56	17	.51
17	Interpreters	2	.05	2	.07	2	.06
18	Janitors	293	7.00	180	5.92	188	5.59
19	Linemen	6	.14	3	.10	3	.09
20	Malsters.....	1	.02	1	.03	2	.06
21	Mode's	1	.02	1	.03	1	.03
22	Office help.....	31	.74	7	.23	7	.21
23	Oilers	7	.17				
24	Pin setters	27	.64	27	.89	27	.80
25	Silver men.....	1	.02				
26	Stove men.....	3	.07	2	.07	2	.06
27	Vise hands.....	4	.10				
28	Watchmen	150	3.58	58	1.91	58	1.72
29	Window washers.....	433	10.34	425	13.97	478	14.20
30	Wood finishers	7	.17				
31	Yardmen	167	3.99	158	5.20	160	4.74
32	Not classified.....	633	15.12	408	13.43	433	12.86

FEMALES.

	FEMALES	13,730	† 12,319	15,085
	CLERICAL.....	363	100.00	115	100.00	120	100.00
1	Bookkeepers.....	39	10.74	5	4.35	6	5.00
2	Office work.....	217	59.78	87	75.65	88	73.33
3	Stenographers	107	29.48	23	20.00	26	21.67
	COMMERCIAL	157	100.00	72	100.00	131	100.00
1	Addressers.....	14	8.92	4	5.56	5	3.81
2	Bottle labelers	8	5.10	3	4.17	3	2.30
3	Canvassers.....	18	11.47	15	20.83	27	20.61
4	Cashiers.....	34	21.66	5	6.94	5	3.82
5	Clerks	48	30.58	20	27.78	26	19.85
6	Collectors.....	1	.64				
7	Demonstrators.....	5	3.13	1	1.39	6	4.58
8	Distributors	2	1.28	2	2.78	2	1.52
9	Mailorder help.....	2	1.28				
10	Saleswomen	2	1.28	2	2.78	6	4.58
11	Solicitors.....	14	8.92	12	16.66	43	32.82
12	Wrappers	9	5.74	8	11.11	8	6.11

† Including 123 positions secured from applications filed the previous year.

Table 8—Concluded.

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.		POSITIONS SECURED.		APPLICATIONS FOR HELP.	
		Number.	Percent-ages of each class.	Number.	Percent-ages of each class.	Number.	Percent-ages of each class.
	DOMESTIC SERVICE	12,001	100 00	11,037	100 00	13,278	100 00
1	Chambermaids	964	8 08	875	7 94	954	7 18
2	Cooks	1,123	9 36	1,000	9 06	1,237	9 31
3	Dayworkers	859	7 16	847	7 67	865	6 51
4	Dining room help	318	2 65	304	2 76	332	2 50
5	Dishwashers	935	7 79	888	8 05	951	7 16
6	Domestics	499	4 16	478	4 34	552	4 12
7	General house work	2,503	20 86	2,434	22 06	2,985	22 48
8	Hotel help	9	.07	4	.04	4	.03
9	House keepers	377	3 14	263	2 39	341	2 57
10	House work	1,534	12 70	1,486	13 47	1,924	14 49
11	Kitchen help	755	6 29	702	6 36	756	5 69
12	Laundresses	326	2 72	295	2 68	329	2 48
13	Nurse girls	31	.26	28	.26	28	.21
14	Pantry work	121	1 01	102	.93	113	.85
15	Reception service	2	.02	.....	.....	.....	.....
16	Scrub women	656	5 47	620	5 63	683	5 14
17	Second work	315	2 62	279	2 44	338	2 56
18	Silver girls	2	.02	2	.02	2	.02
19	Vegetable cleaners	6	.05	6	.05	7	.05
20	Waitresses	673	5 60	621	5 63	775	5 83
21	Washer women	3	.02	2	.02	2	.02
	PERSONAL SERVICE	21	100 00	12	100 00	13	100 00
1	Attendants	4	19 05	4	33 34	5	38 46
2	Companions	13	61 90	6	50 00	6	46 16
3	Lady's maids	3	14 29	1	8 33	1	7 69
4	Matron	1	4 76	1	8 33	1	7 69
	PROFESSIONAL	254	100 00	180	100 00	220	100 00
1	Governesses	2	.79	.....	.....	.....	.....
2	Nurses	251	98 82	180	100 00	220	100 00
3	Teachers	1	.39	.....	.....	.....	.....
	TRADES	116	100 00	100	100 00	168	100 00
1	Milliners	1	.86	.....	.....	.....	.....
2	Seamstresses	115	99 14	100	100 00	168	100 00
	MISCELLANEOUS	818	100 00	680	100 00	1,155	100 00
1	Agents	1	.12	.....	.....	5	.43
2	Apprentices	1	.12	.....	.....	.....	.....
3	Copyists	1	.12	.....	.....	.....	.....
4	Factory work	744	90 95	632	92 94	1,087	94 11
5	Folders, circulars	12	1 47	7	1 03	10	.87
6	Janitresses	20	2 45	10	1 47	10	.87
7	Proof readers	2	.25	.....	.....	.....	.....
8	Typewriters	1	.12	.....	.....	.....	.....
9	Not stated	36	4 40	31	4 56	43	3 72

A recapitulation of Table 8 is presented as follows:

TABLE 9—*Classified Occupations (Male and Female), with Percentages.*

Number.	SEX AND CLASSES OF OCCUPATIONS.	Number of occupations in each class.	APPLICATIONS FOR EMPLOYMENT.		POSITIONS SECURED.		APPLICATIONS FOR HELP.	
			Number	Percentage	Number	Percentage.	Number	Percentage.
	MALES .....	.....	23,763	100.00	*19,405	100.00	21,625	100.00
1	Agricultural.....	7	1,330	5.60	1,124	5.82	1,338	6.19
2	Clerical.....	13	618	2.60	188	.97	191	.88
3	Commercial.....	14	482	2.03	305	1.58	381	1.76
4	Domestic service..	10	3,108	13.08	2,065	13.28	2,630	12.16
5	Manual labor.....	4	10,497	44.17	10,106	52.33	11,450	52.95
6	Professional.....	5	22	.09	11	.06	11	.05
7	Trades.....	66	1,959	8.24	819	4.24	1,016	4.70
8	Transportation....	11	1,561	6.57	1,156	5.98	1,242	5.74
9	Miscellaneous.....	31	4,186	17.62	3,039	15.74	3,336	15.57
	FEMALES.....	.....	13,720	100.00	†12,319	100.00	15,085	100.00
1	Clerical.....	3	363	2.64	115	.94	120	.80
2	Commercial.....	12	157	1.13	72	.59	131	.87
3	Domestic service..	21	12,001	87.41	11,037	90.50	13,278	88.02
4	Personal service...	4	21	.15	12	.10	13	.09
5	Professional.....	3	254	1.85	180	1.48	220	1.46
6	Trades.....	2	116	.85	100	.82	168	1.11
7	Miscellaneous.....	9	818	5.96	680	5.57	1,155	7.65

This shows that of the 23,763 male applicants for employment 10,497, or 44.17 per cent, registered for some kind of manual labor. This percentage is slightly less than shown for last year. It is also shown that 52.33 per cent of the positions secured were for this kind of employment, and accounts for 52.95 per cent of the employers seeking help.

The next highest number was applicants for employment in domestic service, and represents 13.08 per cent and 13.28 per cent of the positions secured. In the female classification domestic service represents 87.41 per cent of the total number of applicants for employment, and 90.50 per cent of the positions secured, filling 88.02 per cent of applications for help. This class of employment is represented by 21 different occupations. The most important fact of this representation is shown in the column giving the number of positions

* Including 92 positions secured from applications filed the previous year.

† Including 123 positions secured from applications filed the previous year.

secured to applicants for situations. Referring to that part of the table giving the record for males it will be seen that of the 10,497 applying for work as laborers 10,106, or 96.28 per cent, were furnished places to work; in agricultural labor 84.51 and in domestic service 82.53.

For females, in domestic service, applying for positions, 91.97 per cent were secured places, supplying 83.12 per cent of the persons applying for this class of help.

AGE PERIODS OF APPLICANTS.

The age period of applicants for employment by classified occupations is shown in the following table:

TABLE 10—*Age Periods of Applicants, by Classified Occupations.*

MALES.

No.	CLASSIFICATION OF OCCUPATIONS.	Under 20 yrs.	20, but under 30 yrs.	30, but under 40 yrs.	40, but under 50 yrs.	50, but under 60 yrs.	60 yrs. and over.	Not re-ported.
	Males—23,763.....	2,550	9,871	7,750	2,682	598	115	197
	North Side Office.....	258	1,702	1,137	584	137	24	80
	South Side Office.....	825	3,106	2,979	734	218	62	107
	West Side Office.....	1,047	3,114	1,981	677	125	22	10
	Peoria Office.....	420	1,949	1,413	687	118	7	...
	AGRICULTURAL.....	147	590	417	142	21	.....	13
1	Dairymen.....	1	6	4	3	.....	.....	.....
2	Farmers.....	7	53	27	12	.....	.....	.....
3	Farm hands.....	92	409	302	99	13	.....	8
4	Florists.....	.....	5	2	3	1	.....	.....
5	Gardeners.....	.....	14	18	8	4	.....	.....
6	Harvest hands.....	7	24	6	3	.....	.....	.....
7	Stockmen.....	40	79	58	14	3	.....	3
	CLERICAL.....	114	316	123	43	17	2	3
1	Bookkeepers.....	7	28	20	6	2	1	2
2	Clerks, bill.....	1	1	.....	.....	.....	.....	.....
3	Clerks, drug.....	.....	1	1	1	.....	.....	.....
4	Clerks, dry goods.....	.....	1	1	.....	.....	.....	.....
5	Clerks, general.....	78	194	49	16	8	1	.....
6	Clerks, grocery.....	3	4	8	11	5	.....	.....
7	Clerks, hotel.....	1	2	1	.....	.....	.....	.....
8	Clerks, office.....	2	7	6	3	1	.....	1
9	Clerks, shipping.....	4	19	13	5	.....	.....	.....
10	Coal weighers.....	.....	2	.....	.....	.....	.....	.....
11	Stenographers.....	14	14	3	1	.....	.....	.....
12	Stock keepers.....	4	42	21	.....	.....	.....	.....
13	Time keepers.....	.....	1	.....	.....	.....	.....	.....
	COMMERCIAL.....	243	144	68	23	5	.....	1
1	Agents.....	10	14	6	1	.....	.....	1
2	Boys, cash.....	23	.....	.....	.....	.....	.....	.....
3	Boys, delivery.....	138	.....	.....	.....	.....	.....	.....
4	Boys, office.....	51	4	.....	.....	.....	.....	.....
5	Canvassers.....	6	15	10	1	.....	.....	.....
6	Cashiers.....	1	2	.....	.....	.....	.....	.....
7	Checkers.....	1	3	1	.....	.....	.....	.....
8	Collectors.....	4	29	8	.....	.....	.....	.....
9	Distributors.....	2	.....	1	.....	.....	.....	.....
10	Doormen.....	.....	2	1	.....	.....	.....	.....
11	Draughtsmen.....	.....	4	1	.....	.....	.....	.....
12	Salesmen.....	2	48	24	12	3	.....	.....
13	Solicitors.....	4	15	10	4	2	.....	.....
14	Wholesale men.....	6	8	4	2	.....	.....	.....

Table 10—Continued.

No.	CLASSIFICATION OF OCCUPATIONS.	Under 20 yrs.	20, but under 30 yrs.	30, but under 40 yrs.	40, but under 50 yrs.	50, but under 60 yrs.	60 yrs. and over.	Not re- ported.
	DOMESTIC SERVICE.....	244	1,082	988	513	181	45	55
1	Butlers.....	1	6	2	.....	.....	.....	2
2	Carpet layers.....	.....	3	1	.....	.....	.....	.....
2	Cooks.....	8	188	177	25	30	3	4
4	Dishwashers.....	39	164	196	50	15	5	6
5	Housemen.....	25	238	283	176	64	20	19
6	Kitchen work.....	13	48	60	29	9	3	6
7	Pantrymen.....	.....	1	.....	1	1	.....	.....
8	Pan washers.....	1	2	.....	.....	.....	.....	.....
9	Porters.....	68	283	238	208	54	14	12
10	Waiters.....	89	149	91	24	8	.....	6
	MANUAL LABOR.....	387	4,505	4,015	1,263	231	50	46
1	Coal heavers.....	.....	.....	.....	.....	1	.....	.....
2	Laborers.....	369	4,335	3,878	1,213	221	49	46
3	Laborers, railroad.....	18	159	123	42	8	1	.....
4	Shovelers.....	.....	11	14	8	1	.....	.....
	PROFESSIONAL.....	.....	10	7	4	1	.....	.....
1	Architects.....	.....	.....	1	.....	.....	.....	.....
2	Artists.....	.....	2	1	1	.....	.....	.....
3	Nurses.....	.....	7	4	3	1	.....	.....
4	Pharmacists.....	.....	.....	1	.....	.....	.....	.....
5	Teachers.....	.....	1	.....	.....	.....	.....	.....
	TRADES.....	214	895	580	210	47	6	7
1	Bakers.....	3	25	12	10	4	.....	.....
2	Barbers.....	1	3	2	2	.....	.....	.....
3	Bartenders.....	3	28	7	1	.....	.....	.....
4	Bench hands.....	1	18	1	3	.....	.....	.....
5	Blacksmiths.....	1	34	58	20	.....	.....	.....
6	Boiler makers.....	.....	5	2	.....	.....	.....	.....
7	Book binders.....	.....	1	2	1	.....	.....	.....
8	Box makers.....	4	14	9	8	1	.....	2
9	Brass finishers.....	1	2	.....	2	.....	.....	.....
10	Brick layers.....	.....	4	1	.....	.....	.....	.....
11	Bridge builders.....	.....	1	.....	.....	.....	.....	.....
12	Butchers.....	.....	11	17	6	2	.....	2
13	Cabinet makers.....	.....	10	8	1	3	.....	.....
14	Calceminers.....	.....	1	1	.....	.....	.....	.....
15	Candy makers.....	.....	1	1	.....	.....	.....	.....
16	Carpen'ers.....	.....	42	89	44	15	2	1
17	Cigar makers.....	.....	2	.....	.....	.....	.....	.....
18	Coal miners.....	5	9	6	2	.....	.....	.....
19	Compositors.....	.....	.....	1	1	.....	.....	.....
20	Core makers.....	1	6	.....	.....	.....	.....	.....
21	Deck hands.....	2	.....	.....	.....	.....	.....	.....
22	Drill pressmen.....	35	11	2	2	.....	.....	.....
23	Electricians.....	5	30	10	2	.....	.....	.....
24	Engineers.....	1	32	49	19	7	1	.....
25	Firemen.....	13	100	43	11	3	.....	1
26	Glass workers.....	.....	1	.....	.....	.....	.....	.....
27	Harness makers.....	.....	3	3	.....	.....	.....	.....
28	Horse shoers.....	.....	1	2	.....	.....	.....	.....
29	Iron workers.....	2	8	9	3	.....	.....	1
30	Lathe hands.....	.....	13	2	.....	.....	.....	.....
31	Lathers.....	.....	1	.....	.....	.....	.....	.....
32	Laundrymen.....	10	17	15	2	.....	.....	.....
33	Locksmiths.....	2	2	3	.....	.....	.....	.....
34	Machine hands.....	54	68	9	2	.....	.....	.....
35	Machinists.....	18	134	62	23	3	.....	.....
36	Masons.....	.....	.....	1	.....	.....	.....	.....
37	Metal workers.....	2	5	3	1	.....	.....	.....
38	Millers.....	.....	.....	.....	.....	1	.....	.....
39	Millwrights.....	.....	1	.....	.....	.....	1	.....
40	Molders.....	.....	8	5	3	.....	.....	.....
41	Packers.....	20	61	21	11	.....	.....	.....
42	Painters.....	4	84	60	.....	.....	.....	.....

Table 10—Continued.

CLASSIFICATION OF OCCUPATIONS.	Under 20 yrs.	20, but under 30 yrs.	30, but under 40 yrs.	40, but under 50 yrs.	50, but under 60 yrs.	60 yrs. and over.	Not re- ported.
Paper hangers.....		3	3		1		
Pattern makers.....		2	3	2		1	
Photographers.....	1		1				
Pipe fitters.....			1				
Plasterers.....	1	1	1	3			
Plumbers.....	2	6	5	1			
Polishers, metal.....		3	1				
Polishers, not stated.....		1	2				
Pressers.....	1	2					
Pressmen.....		6	2				
Printers.....	4	9	3				
Punch press hands.....	16	17	1				
Roofers.....		1	1				
Sawyers.....	2	1	2				
Shoemakers.....		5	2	2			
Steam fitters.....		7	5	1			
Stone cutters.....		2					
Tailors.....	1	3	1	2	1		
Telegraphers.....		1					
Tinsmiths.....	1	9	12	3	2		
Tool makers.....	1	1	3	1			
Upholsterers.....		3	2	1	1	1	
Watchmakers.....				1			
Wood workers.....		5	4	4	3		
TRANSPORTATION.....	149	712	500	136	23		41
Barnmen.....	32	149	93	15	7		6
Brakemen.....	1	7	2				
Coachmen.....	1	39	11		1		24
Conductors.....			2				
Drivers.....	53	137	103	42	7		6
Elevator men.....	37	78	35	6			2
Hostlers.....	4	29	21	6	1		
Railroad men.....	1	4					
Sailors.....		1					
Teamsters.....	19	262	229	65	7		3
Truckmen.....	1	6	4	2			
MISCELLANEOUS.....	1,052	1,617	1,054	348	72	12	31
Apprentices.....	36	11					
Blacksmith helpers.....		9	4	1		1	
Boot blacks.....	21	17	4	1			3
Boys.....	347	11					
Boys, bell.....	37						
Boys, elevator.....	6						
Boys, errand.....	76						
Boys, factory.....	28						
Carriage and wagon washers.....		5	11	4	1		
Cleaners, harness.....	1	1					
Factory hands.....	363	838	443	97	8		9
Foremen.....		1		2			
Foundry men.....			3				
Furnace tenders.....				1			
Guards, railroad.....			2				
Ice cutters.....		8	9				
Interpreters.....			2				
Janitors.....	16	132	96	40	8	1	
Linemen.....	1	4	1				
Malsters.....				1			
Models.....		1					
Office help.....	8	18	4	1			
Oilers.....	1	5	1				
Pin setters.....	18	9					
Silver men.....		1					
Stove men.....		3					
Vise hands.....		1	2		1		
Watchmen.....		24	27	61	30	8	
Window washers.....	4	157	195	65	3		9
Wood finishers.....	4	2	1				
Yardmen.....	6	63	69	17	4		8
Not classified.....	79	296	180	57	17	2	2

Table 10—Continued.

FEMALES.

No.	CLASSIFICATION OF OCCUPATION.	Under 20 yrs.	20. but under 30 yrs.	30. but under 40 yrs.	40. but under 50 yrs.	50. but under 60 yrs.	60 yrs. and over.	Not re- ported.
	Females—13,730.....	2,451	5,002	3,187	1,630	540	127	793
	North Side Office	581	1,259	694	618	269	30	496
	South Side Office.....	752	1,947	1,373	524	163	62	143
	West Side Office.....	516	918	624	322	44	15	154
	Peoria Office.....	602	878	496	166	64	20	.....
	CLERICAL.....	206	125	22	5	.....	.....	5
1	Book keepers.....	11	21	6	1	.....	.....	.....
2	Office work.....	126	73	11	3	.....	.....	4
3	Stenographers... ..	69	31	5	1	.....	.....	1
	COMMERCIAL.....	57	73	19	7	1	.....	.....
1	Addressers	10	3	1	.....	.....	.....	.....
2	Bottle labelers.....	5	3	.....	.....	.....	.....	.....
3	Canvassers	1	7	6	4	.....	.....	.....
4	Cashiers.....	10	22	2	.....	.....	.....	.....
5	Clerks.....	20	22	5	1	.....	.....	.....
6	Collectors .....	.....	1	.....	.....	.....	.....	.....
7	Demonstrators	1	3	1	.....	.....	.....	.....
8	Distributors	1	1	.....	.....	.....	.....	.....
9	Mail order help.....	1	1	.....	.....	.....	.....	.....
10	Saleswomen.....	.....	2	.....	.....	.....	.....	.....
11	Solicitors	1	7	3	2	1	.....	.....
12	Wrappers.....	7	1	1	.....	.....	.....	.....
	DOMESTIC SERVICE.....	1,614	4,410	3,011	1,568	516	127	755
1	Chambermaids.....	104	455	200	136	24	3	42
2	Cooks.....	24	242	402	268	62	20	105
3	Day workers.....	11	208	292	138	89	13	108
4	Dining room help.....	74	178	55	3	.....	.....	8
5	Dishwashers.....	122	293	199	161	44	16	100
6	Domestics.....	77	238	72	54	8	.....	50
7	General housework.....	524	1,050	440	223	95	8	163
8	Hotel help.....	.....	3	1	2	3	.....	.....
9	House keepers.....	5	104	128	88	26	7	19
10	House work.....	192	576	503	141	49	38	25
11	Kitchen help.....	93	184	217	135	48	21	57
12	Laundresses.....	18	95	148	48	1	.....	16
13	Nurse girls.....	26	5	.....	.....	.....	.....	.....
14	Pantry work.....	27	64	17	8	3	.....	2
15	Reception service.....	1	1	.....	.....	.....	.....	.....
16	Scrub women.....	9	183	234	137	64	1	28
17	Second work.....	101	135	49	22	.....	.....	8
18	Silver girls.....	.....	2	.....	.....	.....	.....	.....
19	Vegetable cleaners.....	4	1	1	.....	.....	.....	.....
20	Waitresses.....	202	392	52	3	.....	.....	24
21	Washerwomen.....	.....	1	1	1	.....	.....	.....
	PERSONAL SERVICE.....	2	8	6	2	.....	.....	3
1	Attendants .....	.....	2	1	1	.....	.....	.....
2	Companions.....	1	5	5	.....	.....	.....	2
3	Lady's maids.....	1	1	.....	1	.....	.....	.....
4	Matrons .....	.....	.....	.....	.....	.....	.....	1
	PROFESSIONAL.....	100	77	33	23	13	.....	8
1	Governess.....	.....	2	.....	.....	.....	.....	.....
2	Nurses.....	100	75	32	23	13	.....	8
3	Teachers .....	.....	.....	1	.....	.....	.....	.....

Table 10—Concluded.

CLASSIFICATION OF OCCUPATION.	Under 20 yrs.	20, but under 30 yrs.	30, but under 40 yrs.	40, but under 50 yrs.	50, but under 60 yrs.	60 yrs. and over.	Not re- ported.
TRADES.....	10	70	20	5	4	.....	7
Milliners.....	.....	5	.....	.....	.....	.....	.....
Seamstresses.....	10	69	20	5	4	.....	7
MISCELLANEOUS.....	462	239	76	20	6	.....	15
Agents.....	.....	1	.....	.....	.....	.....	.....
Apprentices.....	1	.....	.....	.....	.....	.....	.....
Copyists.....	.....	.....	1	.....	.....	.....	.....
Factory work.....	434	218	61	16	5	.....	10
Folders, circular.....	10	2	.....	.....	.....	.....	.....
Janitresses.....	1	3	10	3	1	.....	2
Proof readers.....	.....	1	1	.....	.....	.....	.....
Type writers.....	.....	1	.....	.....	.....	.....	.....
Not stated.....	1	13	3	1	.....	.....	3

A summary of the foregoing table is found in the table following:
TABLE 11—Summary of Age Periods of Applicants, by Classified Occupations.

SEX AND CLASSES OF OCCUPATIONS.	Number of occupa- tions of each class.	Totals.	Under 20 yrs.	20, but under 30 yrs.	30, but under 40 yrs.	40, but under 50 yrs.	50, but under 60 yrs.	60 yrs. and over.	Not re- ported.
.....	.....	23,763	2,550	9,871	7,750	2,682	598	115	197
.....	.....	13,730	2,451	5,002	3,187	1,630	540	127	793
.....—Males.....	.....	.....	10.73	41.54	32.61	11.29	2.52	.48	.83
.....—Females.....	.....	.....	17.85	36.43	23.21	11.87	3.93	.93	5.78
al.....	7	1,330	147	590	417	142	21	.....	13
.....	13	618	114	316	123	43	17	2	3
.....	14	482	243	144	66	23	5	.....	1
vice.....	10	3,108	244	1,082	988	513	181	45	55
.....	4	10,497	387	4,505	4,015	1,263	231	50	46
.....	5	22	.....	10	7	4	1	.....	.....
.....	66	1,959	214	895	580	210	47	6	7
.....	11	1,561	149	712	500	136	23	.....	41
.....	32	4,186	1,052	1,617	1,054	348	72	12	31

Table 11—Concluded.

SEX AND CLASSES OF OCCUPATIONS.	Number of occupations of each class.	Totals.	Under 20 yrs.	20, but under 30 yrs.	30, but under 40 yrs.	40, but under 50 yrs.	50, but under 60 yrs.	60 yrs. and over.	Not reported.
FEMALES—									
Clerical	3	363	206	125	22	5	.....	.....	5
Commercial	12	157	51	73	19	7	1	.....	..
Domestic service. . .	21	12,001	1,614	4,410	3,011	1,568	516	127	25
Personal service.	4	21	2	8	6	2	.....	.....	1
Professional	3	254	100	77	33	23	13	.....	3
Trades	2	116	10	71	20	5	4	.....	7
Miscellaneous	9	818	462	239	76	20	6	.....	15

The percentages in the above table show that 41.54 per cent of the male applicants were between the ages of 20 and 30 years and 36.43 per cent of the females. Of the total males 17,621, or 74.15 per cent, were between the ages of 20 and 40 years, 14.29 per cent over 40 years, and 10.85 per cent under 20 years. Of the male applicants for manual labor 96.88 per cent were under 50 years of age, and 88.26 per cent of female applicants for domestic service.

CONJUGAL CONDITIONS.

In the following table is shown the conjugal conditions of both males and females by classified occupations:

TABLE 12—*Conjugal Conditions, Members of Trades Unions, Days Idle, and Number Willing to Accept Work Out of City.*

Number.	CLASSIFICATION OF OCCUPATIONS.	CONJUGAL CONDITIONS.			Number members of trades unions.	Average days idle.	Number willing to work out of city.
		Number married.	Number single.	Number of dependent children.			
	MALES	23,763	5,501	18,262	7,056	1,373	16
	North Side Office	1,599	2,593	1,768	255	14	47
	South Side Office	1,328	6,708	1,921	581	5	6,321
	West Side Office	1,311	5,665	1,892	372	28	4,233
	Peoria Office	1,298	3,301	1,475	165	20	1,336
	AGRICULTURAL...	297	1,033	564	27	48	1,166
1	Dairymen	3	11	7	.....	14	14
2	Farmers	24	75	14	.....	14	24
3	Farm hands	192	731	390	13	62	222
4	Florists	4	7	11	.....	19	4
5	Gardeners	11	33	23	.....	23	33
6	Harvest hands	18	24	28	.....	15	24
7	Stockmen	47	182	68	14	6	47

Table 12.—Continued

CLASSIFICATION OF OCCUPATIONS	CONJUGAL CONDITIONS.			Number members of trades unions.	Average days idle.	Number willing to work out of city.
	Number mar- ried.	Number single	Number of de- pendent chil- dren.			
CLERICAL	119	499	150	7	28	279
Bookkeepers	22	44	28		49	45
Clerks, bill	2		2		27	2
Clerks, drug	1	2			15	3
Clerks, dry goods		2			14	2
Clerks, general	54	292	56		63	113
Clerks, grocery	10	21	9	2	33	21
Clerks, hotel	3	2	3		28	2
Clerks, office	2	17	1		13	18
Clerks, shipping	12	29	80	1	58	24
Coal weighers		2			22	2
Stenographers	2	30	5		87	12
Stock keepers	10	57	18	4	14	33
Time keepers	1	1			6	2
COMMERCIAL	103	379	108	10	39	134
Agents	10	22	14		43	24
Boys, cash		28			8	
Boys, delivery		133			9	
Boys, office		55			41	7
Canvassers	14	21	3		34	18
Cashiers		3			19	1
Checkers	1	4	1		12	1
Collectors	10	31	6	1	56	13
Distributors		3			13	2
Doormen		3			4	2
Draughtsmen	1	4	2		12	4
Salesmen	53	36	66	3	101	55
Solicitors	6	27	5	2	31	16
Wholesalers	8	14	11	4	9	11
DOMESTIC SERVICE	507	2,601	565	133	36	1,743
Butlers		11			6	
Carpet layers	2	2			9	3
Cooks	127	306	99	56	44	253
Dishwashers	28	387	5		20	268
Housemen	125	700	102		39	417
Kitchen work	29	139	25	2	28	95
Pantry work	1	2	2		10	
Panwashers		3			4	
Porters	109	768	169	6	39	486
Waiters	86	281	163	69	37	221
MANUAL LABOR	2,356	8,141	2,860	116	69	6,311
Coal heavers		1			12	1
Laborers	2,323	7,788	2,828	112	71	5,947
Laborers, railroad	17	334	8		17	351
Shovelers	16	18	24	4	6	12
PROFESSIONAL	6	16	5		36	12
Architects	1					
Artists	1	3	3		28	2
Nurses	2	13	1		40	10
Pharmacists	1		1		12	
Teachers	1					

Table 12.—Continued.

Number.	CLASSIFICATION OF OCCUPATIONS.	CONJUGAL CONDITIONS.			Number members of trades unions.	Average days idle.	Number willing to work out of city
		Number mar- ried.	Number single	Number of de- pendent chil- dren.			
	TRADES	773	1,188	1,120	559	68	93
1	Bakers	17	37	25	16	66	35
2	Barbers	2	6	2	3	33	6
3	Bartenders	10	29	4	4	38	30
4	Bench hands	8	15	12	2	20	2
5	Blacksmiths	66	47	76	39	64	46
6	Boilermakers	3	4	5	3	41	6
7	Bookbinders	1	3	2		68	2
8	Boxmakers	6	32	11	11	15	23
9	Brass finishers	1	4	1	1	26	3
10	Brick layers	1	4	2		40	4
11	Bridge builders	1				30	
12	Butlers	14	24	23	12	42	2
13	Cabinet makers	10	12	15	5	46	6
14	Calcutters	1	1	2		10	
15	Candy makers	1	1			19	1
16	Carpenters	111	82	102	61	45	61
17	Cigarmakers		2			30	1
18	Coal miners	10	12	18	19	18	22
19	Compositors	1	1	2		9	1
20	Coremakers	2	3			32	4
21	Deck hands		2				3
22	Drillpress men	6	44	17	5	23	14
23	Electricians	15	32	15	16	73	22
24	Engineers	63	46	118	39	74	38
25	Firemen	61	110	113	44	90	66
26	Glass workers	1				60	
27	Harness makers	1	5	3	2	26	2
28	Horse shoers	2	1	3		15	2
29	Ironworkers	8	15	16	1	28	6
30	Lathe hands	2	13	4		47	3
31	Lathers	1			1	30	
32	Laundrymen	8	36	25	21	27	30
33	Locksmiths	2	8	4		16	1
34	Machine hands	21	110	20	9	38	33
35	Machinists	104	186	156	87	155	120
36	Masons		1			21	
37	Metal workers	6	5	7	3	51	4
38	Millers		1			90	1
39	Millwrights	9	1	19	2	33	1
40	Molders	10	8	15	8	47	12
41	Packers	31	79	34	2	58	36
42	Painters	68	101	101	63	69	46
43	Paper hangers	4	3	6	3	74	5
44	Patternmakers	8		16	2	37	3
45	Photographers	1	1	3		14	
46	Pipe fitters		1		1	7	
47	Plasterers	2	4	2	3	19	2
48	Plumbers	3	11	5	7	82	8
49	Polishers, metal		4			12	1
50	Polishers, not stated	2	1	1	2	61	2
51	Pressers		3		2	6	2
52	Pressmen	4	4	1	1	95	1
53	Printers	6	10	5	3	104	7
54	Punchpress hands	4	30	4	4		17
55	Roofers	1	1			7	
56	Sawyers	2	3	4	2	29	3
57	Shoemakers	4	5	7	2	60	2
58	Steamfitters	8	5	17	4	46	8
59	Stone cutters	1	1	2		16	1
60	Tailors	2	6	5	4	26	3
61	Telegraphers		1				1
62	Tinsmiths	15	12	24	8	50	11
63	Toolmakers	4	2	10	1	3	1
64	Upholsterers	5	3	18	3	24	
65	Watchmakers	1				12	
66	Woodworkers	11	5	21	6	27	

Table 12—Continued.

CLASSIFICATION OF OCCUPATIONS.	CONJUGAL CONDITIONS.			Number members of trades unions.	Average days idle.	Number willing to work out of city.
	Number mar- ried.	Number single	Number of de- pendent chil- dren.			
TRANSPORTATION	442	1,119	556	496	55	524
Barnmen	72	230	64	66	64	136
Brakemen	15	10	1	1	33	3
Coachmen	2	61	9	.....	32	35
Conductors	127	221	7	.....	80	.....
Drivers	22	156	88	81	66	65
Elevatormen	11	50	27	43	46	80
Hostlers .....	.....	5	24	3	20	28
Railroadmen .....	.....	1	.....	.....	6	2
Sailors	189	396	354	241	58	187
Teamsters	4	9	3	1	15	3
Truckmen .....	.....	.....	.....	.....	.....	.....
MISCELLANEOUS	896	3,288	1,128	105	56	1,276
Apprentices	2	45	.....	.....	19	17
Blacksmiths' helpers	6	9	11	1	29	6
Bootblacks .....	.....	46	.....	.....	3	41
Boys .....	.....	358	.....	.....	38	25
Boys, bell .....	.....	87	.....	.....	22	1
Boys, elevator .....	.....	6	.....	.....	10	.....
Boys, errand .....	.....	76	.....	.....	27	.....
Boys, factory .....	.....	28	.....	.....	8	.....
Carriage and wagon washers	6	15	13	7	8	8
Cleanse, harness .....	.....	2	.....	.....	12	2
Factory hands	424	1,394	523	20	72	409
Foremen	3	.....	7	.....	10	2
Foundrymen	1	2	1	.....	10	.....
Furnace tender .....	.....	1	.....	.....	2	.....
Guards, railroad	2	.....	5	2	10	.....
Ice cutters	8	9	14	1	10	.....
Interpreters .....	.....	2	.....	.....	11	2
Janitors	97	196	123	22	62	117
Linemen	1	5	1	.....	190	3
Malsters .....	.....	1	.....	.....	.....	.....
Models .....	.....	1	.....	.....	.....	.....
Office help	7	24	8	.....	82	3
Oilers	2	5	4	2	11	3
Pinsetters .....	.....	27	.....	.....	4	10
Silvermen .....	.....	1	.....	.....	.....	.....
Stovemmen	2	1	5	.....	10	.....
Vise hands	1	3	.....	2	36	2
Watchmen	90	80	125	3	147	46
Window washers	121	812	143	15	27	81
Wood finishers	1	6	.....	2	36	5
Yardmen	30	137	29	1	34	58
Not classified	94	589	116	27	36	435
FEMALES. 13,730	4,054	9,676	2,618	.....	8	3,214
North Side Office	1,360	2,578	757	.....	11	75
South Side Office	797	4,167	611	.....	5	2,499
West Side Office	1,179	1,414	964	.....	9	295
Peoria Office	709	1,517	286	.....	7	345
CLERICAL	32	331	19	.....	70	80
Bookkeepers	8	31	2	.....	99	12
Office work	19	196	11	.....	76	35
Stenographers	5	102	6	.....	48	33

Table 12—Continued.

Number.	CLASSIFICATION OF OCCUPATIONS.	CONJUGAL CONDITIONS.			Number members of trades unions.	Average days idle.	Number, white.
		Number mar- ried.	Number single	Number of de- pendent chil- dren.			
	COMMERCIAL	50	107	27		47	
1	Addressers	2	12			48	
2	Bottle labelers		8			6	
3	Canvassers	12	6	4		25	
4	Cashiers	7	27	8		40	
5	Clerks	12	36	6		68	
6	Collectors	1					
7	Demonstrators	2	3	1		24	
8	Distributors	1	1			7	
9	Mail order help	1	1			90	
10	Saleswomen	1	1			15	
11	Solicitors	11	3	6		30	
12	Wrappers		9			19	
	DOMESTIC SERVICE	5,802	8,199	2,389		11	1
1	Chambermaids	246	718	87		20	
2	Cooks	414	709	217		26	
3	Day workers	699	160	613		18	
4	Diningroom help	58	260	24		20	
5	Dishwashers	429	506	290		20	
6	Domestics	161	338	44		15	
7	General housework	495	2,008	112		14	
8	Hotel help	4	5	2		1	
9	Housekeepers	235	142	91		43	
10	Housework	30	1,485	63		5	
11	Kitchen help	266	489	192		14	
12	Laundresses	145	181	153		19	
13	Nurse girls	2	29	3		4	
14	Pantry work	31	90	27		35	
15	Reception service	1	1				
16	Scrubwomen	453	203	302		15	
17	Second work	17	298	8		13	
18	Silver girls		2			2	
19	Vegetable cleaners	2	4	2		3	
20	Waitresses	102	571	63		24	
21	Washerwomen	3		4		1	
	PERSONAL SERVICE	5	16			40	
1	Attendants	1	3			13	
2	Companions	3	10			52	
3	Lady's maids	1	2			12	
4	Matrons		1				
	PROFESSIONAL	53	201	59		35	
1	Governesses		2				
2	Nurses	53	198	59		35	
3	Teachers		1			30	
	TRADES	33	83	29		20	
1	Milliners		1			21	
2	Seamstresses	33	82	29		20	

Table 12.—Concluded.

CLASSIFICATION OF OCCUPATIONS.	CONJUGAL CONDITIONS.			Number members of trades unions.	Average days idle.	Number willing to work out of city.
	Number mar- ried.	Number single	Number of de- pendent chil- dren			
MISCELLANEOUS	79	739	95	.....	120	52
Agents		1				
Apprentices		1			85	
Copyists		1				
Factory work	51	698	45		122	48
Folders, circular		12			24	
Janitresses	18	2	23		45	
Proofreaders		2				2
Typewriters		1				
Not stated	10	26	27		146	7

This table is recapitulated and presented as follows:

TABLE 13.—Summary of Conjugal Conditions, Members of Trade Unions, days idle and Number Willing to accept work out of the City, with Percentages.

OCCUPATIONS.		Totals	CONJUGAL CONDITIONS			Number members of trades unions.	Average number of days idle.	Number willing to work out of city.
SEX AND CLASSIFICATION OF OCCUPATIONS.	Number of oc- cupations in each class.		Number married.	Number single	Number of de- pendent children.			
Males	162	23,763	5,501	18,262	7,058	1,373	16	12,408
Females	54	13,730	4,054	9,676	2,618	.....	8	3,214
Percentage—males			23.15	76.85	...	5.78		52.22
Percentage—females			29.53	70.47	..			23.41
MALES—								
Agricultural	7	1,330	297	1,033	564	27	48	1,196
Clerical	13	618	119	499	150	7	28	279
Commercial	14	482	103	379	108	10	39	154
Domestic service	10	3,108	507	2,601	565	133	36	1,743
Manual labor	4	10,497	2,356	8,141	2,860	116	69	6,311
Professional	5	22	6	16	5		36	12
Trades	66	1,959	773	1,186	1,120	539	68	913
Transportation	11	1,561	442	1,119	556	436	55	524
Miscellaneous	32	4,186	898	3,288	1,123	105	56	1,278

Table 13 - Concluded.

SEX AND CLASSIFICATION OF OCCUPATIONS.		Number of oc- cupations in each class.	Total.	CONJUGAL CONDITIONS.			Number member of trades unions.	Average number of days idle.	Number willing to work out of city.
				Number married.	Number single.	Number of de- pendent children.			
FEMALES—									
Clerical		3	363	32	331	19		70	30
Commercial		12	157	50	107	27		47	23
Domestic service.		21	12,001	3,802	8,199	2,389		18	2,965
Personal service		4	21	5	16			40	10
Professional .		3	254	53	201	59		35	63
Trades ..		2	116	33	83	29		20	15
Miscellaneous.		9	818	79	739	95		120	52

Of the male applicants for employment it is shown that 5,501 or 23.15 per cent were married, having 7,056 dependent children, indicating less than three members to each family. There were only 1,373 or 5.78 per cent registered as members of trade unions, about one-half the number reported last year.

The average number of days of idleness is 16, which is double the number reported for last year. Of the total number of male applicants 12,408 or 52.22 per cent registered as willing to accept positions outside of cities.

Referring to the females registering for employment, it will be seen that the total number, 4,054 or 29.53 per cent were married, having 2,618 dependent children. The average number of days of idleness to each female was eight, two more than reported for last year; the number willing to accept employment outside of the cities was 3,214 or 23.41 per cent.

NATIONALITY.

The nationality of all applicants by classified occupations is

TABLE 14—*Nationality of all*

Number.	CLASSIFICATION OF OCCUPATIONS.	American.	Austrian.	Bohemian.	Canadian.	Danish.	English.	French.	German and Hollanders.
	MALES.	12,297	206	334	235	259	436	138	1,425
	North Side Office.....	2,153	6	7	9	73	73	6	70
	South Side Office.....	3,039	135	173	179	156	174	63	1,301
	West Side Office.....	3,108	54	144	45	80	181	57	1,241
	Peoria Office.....	3,997	11	10	2	.....	8	12	343
	AGRICULTURAL	596	16	25	30	24	■	2	199
1	Dairymen.....	8	.....	.....	.....	.....	.....	.....	6
2	Farmers.....	65	.....	.....	1	4	.....	.....	6
3	Farmhands.....	382	15	14	24	20	20	2	140
4	Florists.....	4	.....	.....	1	.....	1	.....	3
5	Gardeners.....	20	.....	2	1	.....	1	.....	10
6	Harvest hands.....	32	1	1	.....	.....	.....	.....	6
7	Stockmen.....	85	.....	8	3	.....	10	.....	26
	CLERICAL.	342	3	7	12	4	32	6	80
1	Bookkeepers.....	47	.....	1	1	.....	5	.....	6
2	Clerks, bill.....	1	.....	.....	.....	.....	1	.....	.....
3	Clerks, drug.....	1	.....	1	.....	.....	.....	.....	1
4	Clerks, dry goods.....	.....	.....	.....	.....	.....	1	.....	1
5	Clerks, general.....	199	2	5	5	4	13	4	45
6	Clerks, grocery.....	12	.....	.....	1	.....	3	.....	7
7	Clerks, hotel.....	3	.....	.....	.....	.....	1	.....	.....
8	Clerks, office.....	9	.....	.....	2	.....	2	.....	3
9	Clerks, shipping.....	18	.....	.....	3	.....	2	1	4
10	Coal weighers.....	2	.....	.....	.....	.....	.....	.....	.....
11	Stenographers.....	24	.....	.....	.....	.....	1	1	3
12	Stockkeepers.....	25	1	.....	.....	.....	3	.....	10
13	Tunekeepers.....	1	.....	.....	.....	.....	.....	.....	.....
	COMMERCIAL.....	354	.....	3	12	3	17	4	29
1	Agents.....	10	.....	.....	6	.....	5	1	1
2	Boys, cash.....	14	.....	.....	1	.....	1	.....	2
3	Boys, delivery.....	120	.....	2	2	.....	1	1	2
4	Boys, office.....	35	.....	.....	1	3	.....	.....	5
5	Canvassers.....	28	.....	.....	1	.....	2	.....	3
6	Cashiers.....	3	.....	.....	.....	.....	.....	.....	.....
7	Checkers.....	4	.....	.....	.....	.....	.....	.....	1
8	Collectors.....	33	.....	.....	.....	.....	1	.....	3
9	Distributors.....	3	.....	.....	.....	.....	.....	.....	.....
10	Doormen.....	2	.....	.....	.....	.....	.....	.....	.....
11	Draughtsmen.....	4	.....	.....	.....	.....	.....	.....	.....
12	Salesmen.....	69	.....	.....	1	.....	3	1	6
13	Solicitors.....	21	.....	.....	.....	.....	2	.....	2
14	Wholesalers.....	8	.....	1	.....	.....	2	.....	4
	DOMESTIC SERVICE.....	1,488	35	26	52	28	70	39	492
1	Butlers.....	5	.....	.....	.....	.....	.....	.....	1
2	Carpet layers.....	2	.....	.....	.....	.....	1	.....	.....
3	Cooks.....	248	7	2	9	1	13	18	36
4	Dishwashers.....	118	8	7	29	4	10	4	64
5	Housemen.....	298	10	7	6	10	14	2	104
6	Kitchen work.....	72	3	2	1	2	7	3	27
7	Pantrymen.....	.....	.....	.....	.....	.....	.....	.....	2
8	Panwashers.....	3	.....	.....	.....	.....	.....	.....	.....
9	Porters.....	523	7	8	.....	8	15	2	17
10	Waiters.....	224	.....	.....	.....	.....	10	.....	27

presented in the following table:

Applicants for Employment—Males.

Irish.	Italian.	Norwegian.	Polish.	Russian.	Scandinavian.	Scotch.	Swede.	Swiss.	Welsh.	Miscellaneous.	Not reported.	Totals.	Number.
2,465	208	571	386	156	228	194	1204	156	42	364	459	23,763	
534	5	44	20	8	27	27	337	4	2	39	98	4,162	1
1,216	82	205	109	89	196	81	446	122	35	143	287	8,031	2
582	114	322	255	45	4	78	377	28	5	182	74	6,976	3
133	7		2	14	1	8	44	2				4,594	4
100		43	35	17	39	14	95	26	5	13	29	1,330	5
1		1					16		1		2	14	6
68		36	24	17	27	10	63	24	4	12	21	99	7
2		2					2	2		1		11	8
29		4	1		12	4	11				6	44	9
41	5	8	9		5	7	26	4	1	16	10	199	10
1						1	2			2		618	11
												66	12
												2	13
17	2	5	7		3	4	9	3		14	5	346	14
4							3		1			31	15
1		1					2					4	16
5					2	2	2				2	20	17
							1					41	18
12	3	1	2				7	1			3	2	10
1												32	11
												67	12
												2	13
24		7	3		1	9	7	2		7		482	14
4						2	3					32	1
2					1			2				23	2
3		2				1	2			3		133	3
3		2								1		55	4
												35	5
		1	1			2						3	6
												5	7
1												41	8
						1						3	9
4						2	1			2		5	10
3			2			1				1		89	11
4		2					1					33	12
												22	13
238	13	56	27	18	32	17	187	31	6	119	149	3,108	14
1							3			2		11	1
22	2	5	2		5	7	4	3	4	25	22	435	2
25	4	12	7	5	7	4	35	11		37	24	415	3
63	3	16	5	4	6	3	97	12	2	26	52	825	4
17		3	1		5		9				16	169	5
1													6
65	3	19	11	4	6	3	32	5		23	25	677	7
43	1	1	1		3		7			1	10	367	8

Table 14-

Number.	CLASSIFICATION OF OCCUPATIONS.	American.	Austrian.	Bohemian.	Canadian.	Danish.	English.	French.	German and Hollanders.
	MANUAL LABOR	5,401	91	145	56	126	88	37	1,510
1	Coal heavers								
2	Laborers	5,206	88	138	54	120	79	36	1,451
3	Laborers, railroad	175	8	7	2	6	9	1	48
4	Shovelers	21							9
	PROFESSIONAL	10					2	1	3
1	Architects	1							
2	Artists	1					1		
3	Nurses	7					1	1	2
4	Pharmacists	1							
5	Teachers								1
	TRADES	934	16	49	23	10	72	21	358
1	Bakers	16		2	1	1	2		30
2	Barbers	3							2
3	Bartenders	19		1	1	1	2		7
4	Bench hands	10		1					7
5	Blacksmiths	77		2	1		2		15
6	Boiler makers	2			1		2		2
7	Book binders	2							1
8	Box makers	16	1	1	1	2	1		5
9	Brass finishers	4							
10	Brick layers	2							
11	Bridge builders								
12	Butchers	12			1	2	5	1	8
13	Cabinet makers	4	1		1		1	1	5
14	Calcinimers	2							
15	Candy makers	2							
16	Carpenters	91	6	2	1		5	1	31
17	Cigar makers	2							
18	Coal miners	10					2		2
19	Compositors	2							
20	Core makers	2		2					1
21	Deck hands								
22	Drill pressman	27	1	2			1		10
23	Electricians	27		1	1		2		5
24	Engineers	67			2		8	2	11
25	Fireman	90	2	2	3		7	2	32
26	Glass workers								1
27	Harness makers	4							2
28	Horseshoer	1							1
29	Iron workers	6		2		1	1		5
30	Lathe hands	7							4
31	Lathers	1							
32	Laundry men	26		2				2	10
33	Locksmiths								4
34	Machine hands	58		6		4	3		24
35	Machinists	101	1	9	1	1	12	7	48
36	Masons	1							1
37	Metal workers	3		3					1
38	Millers								
39	Millwrights	9							
40	Molders	10	1				1		3
41	Packers	48		2	3	1	3		23
42	Painters	87		8	8	1	7	2	18
43	Paper hangers	5			1				
44	Pattern makers	3					1		2
45	Photographers	1							1
46	Pipe fitters	1							
47	Plasterers	3							1
48	Plumbers	8							4
49	Polishers metal	2		1					
50	Polishers, not stated					1			
51	Pressers	1							
52	Pressmen	4							

Table 14—

Number.	CLASSIFICATION OF OCCUPATION.	American.	Austrian.	Bohemian.	Canadian.	Danish.	English.	French.	German and Hollanders
TRADES—Concluded.									
53	Printers	10				1			3
54	Punch press hands..	10		2			3		2
55	Roofers	2							2
56	Sawyers	2							2
57	Shoe makers	4							4
58	Steam fitters	7							4
59	Stone cutters..		1						
60	Tailors	3		1					3
61	Telegraphers	1							
62	Tinsmiths	9	1				1		8
63	Tool makers	2	1						
64	Upholsterers	2		1					3
65	Watchmakers								
66	Woodworkers	5		1		1			3
TRANSPORTATION		906	11	22	24	7	40	10	213
1	Barrenmen	178	1	2	8	1	12		45
2	Brakemen	7							1
3	Coachmen	36					10		12
4	Conductors	1							
5	Drivers	208		4	2	3	8		35
6	Elevator men	89	3	8	7	2	3	9	16
7	Hostlers	30	1	3	1		1		9
8	Railroad men	1							
9	Sailors						1		
10	Teamsters	374	6	5	4	1	7	1	93
11	Truckmen	4			2				2
MISCELLANEOUS..		2,266	84	57	26	51	83	18	531
1	Apprentices	33		1	1		2		6
2	Blacksmiths' helpers	2							4
3	Boot-blacks	29			2				2
4	Boys	233		1			6	3	33
5	Boys, bell	34							1
6	Boys, elevator	6							
7	Boys, errand	80				2	1		2
8	Boys, factory	28							
9	Carriage and wagon washers	11							3
10	Cleaners, harness								1
11	Factory hands	1,021	24	27	9	21	33	11	135
12	Foremen	3							
13	Foundrymen	2					1		
14	Furnace tenders	1							
15	Guards, railroad	2							
16	Ice cutters	14							3
17	Interpreters		1						
18	Janitors	120	2	4	2	7	7	1	60
19	Linemen	5							1
20	Malsters								1
21	Models	1							
22	Office help	26			1		2		1
23	Oilers	3							2
24	Pinsetters	21							2
25	Silvermen	1							
26	Stonemen	3							
27	Vise hands						1		1
28	Watchmen	60				2	5		23
29	Window washers	183	2	13	2	8	3	1	89
30	Wood finishers	2							4
31	Yardmen	108	3	2	4	4	2		16
32	Not classified	279	2	9	5	7	20	2	121

Continued.

Irish.	Italian.	Norwegian.	Polish.	Russian.	Scandinavian.	Scotch.	Swede.	Swiss.	Welsh.	Miscellaneous.	Not reported.	Totals	Number.
..		2	1	1	..	1	..	..	..	..	1	16	53
2		..	1	..	..	..	..	..	..	..	..	34	54
..		1	..	..	..	..	..	..	..	1	..	2	55
5		..	..	..	..	..	..	..	..	..	..	5	56
1		..	..	..	..	..	..	..	..	..	..	9	57
..		..	..	..	..	..	..	..	..	..	..	13	58
..		..	..	..	..	..	..	..	..	..	..	2	59
..		..	..	..	..	..	..	..	..	1	..	8	60
..		..	..	..	..	..	..	..	..	..	..	1	61
..		..	..	..	..	..	..	..	..	..	1	27	62
..		..	..	..	..	..	1	..	..	..	..	6	63
..		..	..	..	..	..	1	..	..	..	..	8	64
..		..	..	..	..	..	..	1	..	..	..	1	65
..		..	2	..	..	..	2	..	..	..	..	16	66
146	4	20	18	8	5	14	66	4	2	9	39	1,561	
23		..	1	1	5	5	8	1	2	..	5	302	1
2		..	..	..	..	..	..	..	..	..	..	10	2
3		1	..	..	..	..	13	1	..	..	..	76	3
..		..	1	..	..	..	..	..	..	..	..	2	4
43	1	6	5	..	..	2	10	2	..	5	18	349	5
6	..	1	4	2	..	3	16	..	..	2	7	158	6
8	..	3	..	..	..	1	2	..	..	..	2	61	7
2	..	..	..	..	..	..	2	..	..	..	..	5	8
..	..	..	..	..	..	..	..	..	..	..	..	1	9
57	3	4	2	3	..	2	14	..	..	2	7	585	10
2	..	1	..	..	..	1	1	..	..	..	..	13	11
292	33	142	95	28	32	32	273	7	5	97	64	4,186	
1	..	1	..	..	..	1	..	..	..	1	..	47	1
1	1	3	1	..	..	1	2	..	..	..	..	15	2
3	..	..	2	..	3	..	..	..	..	..	5	46	3
11	2	3	11	1	..	1	20	..	..	27	6	358	4
2	..	..	..	..	..	..	..	..	..	..	..	37	5
..	..	..	..	..	..	..	..	..	..	..	..	6	6
1	..	..	2	..	2	..	2	..	..	4	..	76	7
..	..	..	..	..	..	..	..	..	..	..	..	28	8
3	..	..	..	1	..	..	1	..	..	..	..	21	9
..	..	..	1	..	..	..	..	..	..	..	..	2	10
91	18	56	50	15	8	9	110	3	2	39	16	1,758	11
..	..	..	..	..	..	..	..	..	..	..	..	3	12
..	..	..	..	..	..	..	..	..	..	..	..	3	13
..	..	..	..	..	..	..	..	..	..	..	..	1	14
..	..	..	..	..	..	..	..	..	..	..	..	2	15
..	..	..	..	..	..	..	..	..	..	..	..	17	16
..	..	..	..	..	..	..	..	..	..	..	..	2	17
23	..	18	3	1	..	4	52	2	..	3	5	293	18
..	..	..	..	..	..	..	..	..	..	..	..	6	19
..	..	..	..	..	..	..	..	..	..	..	..	1	20
..	..	..	..	..	..	..	..	..	..	..	..	1	21
1	..	..	..	..	..	..	..	..	..	..	..	31	22
1	..	1	..	..	..	..	..	..	..	..	..	7	23
..	..	..	..	..	2	..	..	..	..	..	..	27	24
..	..	..	..	..	..	..	..	..	..	..	..	1	25
..	..	..	..	..	..	..	..	..	..	..	..	3	26
..	..	2	..	..	..	..	..	..	..	..	..	4	27
24	1	3	4	..	3	4	10	..	1	1	9	150	28
60	4	12	1	3	9	4	35	1	1	7	14	433	29
..	..	..	1	..	..	..	..	..	..	..	..	7	30
14	2	5	2	3	..	1	..	..	..	..	6	167	31
54	3	38	16	4	5	7	41	1	1	15	3	633	32

Table 14—

FEMALES.

Number.	CLASSIFICATION OF OCCUPATIONS.	American.	Austrian.	Bohemian.	Canadian.	Danish.	English.	French.	German and Hollanders.
	FEMALES	5,083	48	204	158	113	251	101	2,083
	North Side Office	983	...	24	25	21	99	30	613
	South Side Office	1,085	47	148	75	76	73	28	822
	West Side Office	1,206	1	30	41	10	67	28	490
	Peoria Office	1,789	...	4	17	8	12	17	183
	CLERICAL	262	...	...	9	...	13	4	30
1	Bookkeepers	27	...	...	1	...	2	...	4
2	Office work	151	...	...	6	...	8	2	18
3	Stenographers	84	...	...	2	...	3	2	8
	COMMERCIAL	105	...	1	2	...	1	3	16
1	Addressers	12	...	...	...	...	...	...	1
2	Bottle labelers	5	...	...	...	...	...	...	2
3	Canvassers	16	...	...	1	...	...	1	...
4	Cashiers	23	...	...	1	...	1	...	4
5	Clerks	24	...	1	...	...	...	1	2
6	Collectors	1	...	...	...	...	...	...	...
7	Demonstrators	3	...	...	...	...	...	1	...
8	Distributors	2	...	...	...	...	...	...	...
9	Mail order help	2	...	...	...	...	...	...	...
10	Saleswomen	2	...	...	...	...	...	...	...
11	Solicitors	13	...	...	...	...	...	...	1
12	Wrappers	2	...	...	...	...	...	...	...
	DOMESTIC SERVICE	4,010	48	188	132	100	215	80	1,882
1	Chambermaids	397	4	7	12	8	25	7	186
2	Cooks	391	2	8	10	2	31	15	185
3	Day workers	265	3	15	12	2	18	3	136
4	Diningroom help	239	...	...	1	1	1	3	10
5	Dishwashers	259	6	43	5	16	19	3	134
6	Domestics	175	...	4	4	7	7	5	125
7	General housework	1,014	...	12	14	1	24	10	352
8	Hotel help	7	...	...	...	...	...	...	1
9	Housekeepers	198	...	1	8	...	24	2	52
10	Housework	97	14	39	26	33	11	2	319
11	Kitchen help	176	4	21	5	11	7	2	121
12	Laundresses	101	...	6	9	2	18	1	50
13	Nurse girls	20	...	...	1	...	2	1	3
14	Pantry work	57	...	2	3	...	3	1	17
15	Reception service	1	...	...	...	...	...	...	...
16	Scrub women	105	15	18	3	11	11	7	124
17	Second work	117	...	2	7	3	5	9	27
18	Silver girls	2	...	...	...	...	...	...	...
19	Vegetable cleaners	6	...	...	...	...	...	...	...
20	Waitresses	382	...	12	12	3	9	9	58
21	Washerwomen	1	...	...	...	...	...	...	...
	PERSONAL SERVICE	17	...	...	1	...	...	1	...
1	Attendants	3	...	...	1	...	...	...	...
2	Companions	11	...	...	...	...	...	1	...
3	Lady's maid	3	...	...	...	...	...	...	...
4	Matrons .....	...	...	...	...	...	...	...	...
	PROFESSIONAL	122	...	...	11	...	8	3	3
1	Governesses	2	...	...	...	...	...	...	...
2	Nurses	119	...	...	11	...	8	3	3
3	Teachers	1	...	...	...	...	...	...	...

nued.

FEMALES

Italian.	Norwegian.	Polish.	Russian.	Scandinavian.	Scotch.	Swede.	Swiss.	Welsh.	Miscellaneous.	Not reported.	Totals	Number.
17	402	277	53	187	126	1,416	65	14	161	488	18,730	
9	84	28		29	47	800			69	272	3,947	
6	206	163	53	149	37	486	65	10	89	209	4,964	
2	108	58		4	31	58		4	9	2	2,568	
	4	25		5	11	62					2,226	
	9	1		1	4	14	3		1		363	
				1	1	1					39	1
	2	1			2	10	3		1		217	2
					1	3					107	3
1		6		1	2	9			5		157	
				1							14	1
											8	2
											18	3
		1							4		34	4
		2				9			1		48	5
					1						1	6
											5	7
											2	8
											2	9
											2	10
1		3			1						14	11
											9	12
12	383	227	47	175	109	1,325	56	14	149	459	12,001	
	26	16		4	6	97	3		1	11	964	1
2	31	1		11	12	68	7		17	33	1,123	2
	26	18	3	7	8	87		3		18	859	3
	5	2								7	318	4
	25	30	4	20	2	96	4	1	14	44	935	5
	89	8			9	21		1			499	6
	48	10		1	23	429			26	184	2,503	7
											9	8
	6				7	43			1	9	377	9
2	78	54	19	67	16	189	29	7	27	48	1,524	10
3	37	49	4	32	11	68	3		14	20	755	11
1	8			3	2	14			6	12	326	12
					2						31	13
	1			1	2	7				3	121	14
									1		2	15
4	34	33	17	22	3	71		1	11	22	656	16
	12	1		3	4	52			5	11	315	17
											9	18
											6	19
	7	5		4	2	35	10	1	16	37	673	20
											3	21
											21	
											4	1
											13	2
											3	3
											1	4
	4	1		1	9	22	2			8	254	
	4	1		1	9	22	2			8	254	

Table 14—

Number.	CLASSIFICATION OF OCCUPATIONS.	American.	Austrian.	Bohemian.	Canadian.	Danish.	English.	French.	German and Hollanders.
	TRADES	■	..	1	1	2	7	3	5
1	Milliners	1	..	..	..	..	..	..	..
2	Seamstresses	77	..	1	1	2	7	3	5
	MISCELLANEOUS	459	..	14	2	11	7	7	97
1	Agents	1	..	..	..	..	..	..	..
2	Apprentices	1	..	..	..	..	..	..	..
3	Copyists	1	..	..	..	..	..	..	..
4	Factory work	442	..	14	2	11	7	6	23
5	Folders, circular	12	..	..	..	..	..	..	..
6	Janitresses	13	..	..	..	..	..	..	3
7	Proofreaders	2	..	..	..	..	..	..	..
8	Typewriters .....	..	..	..	..	..	..	..	..
9	Not stated	17	..	..	..	..	..	1	12

A better reading of this presentation is shown in the following

TABLE 15—Summary of the Nationalities of all

SEX AND CLASSIFICATION OF OCCUPATIONS.	American.	Austrian.	Bohemian.	Canadian.	Danish.	English.	French.	German and Hollanders.
Males	12,297	205	334	235	259	436	138	3,415
Females	5,083	48	204	158	118	251	101	2,083
Percentages—Males	53.61	90	1.46	1.02	1.13	1.90	.60	14.93
Percentages—Females	■	37	1.56	1.21	■	1.92	.77	15.75
MALES—								
Agricultural	596	16	25	30	24	32	2	199
Clerical	342	3	7	12	4	32	6	80
Commercial	354	..	3	12	3	17	4	29
Domestic service	1,438	35	26	52	26	70	39	482
Manuel labor	5,401	91	145	56	126	68	37	1,510
Professional	10	..	..	..	..	2	1	3
Trades	934	16	49	23	16	72	21	258
Transportation	906	11	22	24	7	40	19	113
Miscellaneous	2,286	74	57	26	51	■	18	351

Concluded.

Irish.	Italian.	Norwegian.	Polish.	Russian.	Scandinavian.	Scotch.	Swede.	Swiss.	Welsh.	Miscellaneous.	Not reported.	Totals	Number.
8			1		4		6					116	1
8			1		4		6					115	2
54	4	13	41	6	5	2	40	4		6	16	818	
												1	1
												1	2
45	4	13	39	6	5	2	40	4		6	16	744	3
3			1									12	4
1												20	5
5			1									38	6
												1	7
												1	8
												1	9

summary:

Applicants for Employment, by Classified Occupations.

Irish.	Italian.	Norwegian.	Polish.	Russian.	Scandinavian.	Scotch.	Swede.	Swiss.	Welsh.	Miscellaneous.	Not reported.	Totals.
2,465	208	571	386	156	228	101	1,204	156	42	354	450	23,763
2,506	17	402	277	■	187	128	1,416	65	14	161	483	13,730
10.75	91	2.49	1.68	68	■	■	5.24	48	18		.....
19.17	13	3.07	2.12	40	1.43	96	10.82	50	11	.....	...
100	...	43	25	17	39	14	95	26	5	13	29	1,330
41	5	8	9	...	5	7	26	4	1	16	10	618
24		7	3	..	1	9	7	2	...	7	...	101
238	13	56	27	13	32	17	187	31	6	119	149	3,108
1,505	147	242	153	78	106	72	443	71	18	70	131	10,497
1		....	...	..	....	...	2	1		2	...	22
118	6	53	56	14	6	29	105	10	5	31	37	1,959
146	4	20	13	6	5	11	66	4	2	9	89	1,561
292	33	142	95	28	■	32	273	7	5	97	64	4,186

Table 15—

SEX AND CLASSIFICATION OF OCCUPATIONS.	American.	Austrian.	Bohemian.	Canadian.	Danish.	English.	French.	German and Hollanders
FEMALES—								
Clerical.....	262			9		13	4	30
Commercial.	106		1	2		1	3	15
Domestic service	4,010	48	188	132	100	215	80	1,882
Personal service	17			1			1	
Professional.....	122			11		8	3	31
Trades.	78		1	1	2	7	3	4
Miscellaneous .	489		14	2	11	7	7	97

It will be seen that of the total number of male applicants 823 are classed as miscellaneous and not reported, deducting this number from the total leaves 22,940 divided among 18 different nationalities.

The Americans account for 53.61 per cent; Germans and Hollanders, 14.93; Irish 10.75; and Swedes, 5.24; a total of 84.53 per cent leaving 15.47 per cent represented by the other 14 nationalities. The largest number of male applicants in any one classification was for manual labor. The total number in this classification, after deducting the miscellaneous and not reported, is 10,296; this is 44.88 per cent of the whole number of applicants. Here again the same four nationalities represent most of the applicants, being 86.04 per cent, as follows: Americans, 52.45 per cent; German and Hollanders, 14.67; Irish, 14.62; and Swedes, 4.30; this leaves 13.96 per cent represented by the other 14 nationalities.

Concluded.

Irish.	Italian.	Norwegian.	Polish.	Russian.	Scandinavian.	Scotch.	Swede.	Swiss.	Welsh.	Miscellaneous.	Not reported.	Totals.
19	.....	2	1	.....	1	4	14	3	.....	1	.....	363
5	1	.....	6	.....	1	2	9	.....	.....	5	.....	157
2,390	12	383	227	47	175	109	1,325	56	14	149	459	12,001
2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	21
30	.....	4	1	.....	1	9	22	2	.....	.....	8	254
8	.....	.....	1	.....	4	.....	6	.....	.....	.....	.....	116
54	4	13	41	6	5	2	40	4	.....	6	16	188

Of the females 644 are classed as miscellaneous and not reported; deducting this number from the total gives 13,086 divided among the 18 nationalities. Almost an equal per cent of the total number is accounted for by the same four nationalities as in the males, being 84.59 per cent. Although the percentage of each nationality of females differ materially from the males, Americans represent 38.84 per cent; Germans and Hollanders, 15.76; Irish, 19.17; Swedes, 10.82; this leaves 15.41 per cent among the 14 other nationalities. Domestic service shows the largest number of females seeking employment, being 11,393, whose nationalities are given; this is 87.06 per cent of the total number. Americans represent 35.20 per cent; Germans and Hollanders, 16.52; Irish, 20.98; Swedes, 11.63; a total of 84.33 per cent.

The reports of the superintendents of the four offices follow:

SIXTH ANNUAL REPORT OF THE NORTH SIDE ILLINOIS FREE EMPLOYMENT OFFICE, 259 AND 261 NORTH CLARK STREET, CHICAGO, FOR THE YEAR ENDED SEPT. 30, 1904.

(D. M. Brothers, Superintendent.)

HON. DAVID ROSS, *Secretary, Bureau of Labor Statistics, Springfield, Illinois.*

SIR—In compliance with section six of the law establishing Free Employment offices, I beg to submit the sixth annual report of the business of this office covering the period from October 1, 1903, to September 30, 1904, together with the expense account for the same period.

While the business of this office will show a decrease numerically, the high grade and permanency of positions and applicants is still maintained. The decrease is wholly due to the continuous strikes throughout the year. There has not been a month during the whole year when from one to five of our large industries have not been tied up with strikes and in view of that situation it will be apparent to the public that this office has done remarkably well.

We have been the means of putting out of business a large number of private agencies, organized with a view to defrauding applicants for positions, thus making the business of private agencies unprofitable.

During the year I have received hundreds of letters from all over the United States applying for positions, also from employers wanting help.

Chicago seems to be the rendezvous of the unemployed of the entire country. During the fall and winter months more than fifty per cent of the applicants had been in the city less than one week.

I am still of the opinion that the continuing of advertising through mediums which reach employers is essential for the best interest of the public.

The employer is better satisfied with help secured through these offices, for the reason that our experience enables us to select more nearly the character of help the employer desires and saves the valuable time of the employer from being constantly interrupted by applicants for work.

Respectfully submitted,

D. M. BROTHERS,
Superintendent.

*Statement of Expenses of the North Side Free Employment Office
from Oct. 1, 1903, to Sept. 30, 1904.*

Office rent.....	\$1,200 00	Postage	\$134 00
Telephone service.....	169 50	Advertising.....	322 16
Ice and mineral water.....	30 00	Time clock service.....	12 00
Stenographer's service.....	720 00	Rent of typewriter and desk.....	48 00
Janitor's service.....	600 00	Expenses of trip to Springfield of superintendent.....	80 06
Clerk hire.....	800 00	Miscellaneous sundries, repairs, etc.....	66 19
Toilet supplies.....	24 00		
Gas	23 49	Total	\$4,219 39

*Annual Report of the Chicago North Side Free Employment Office
to the State Bureau of Labor Statistics, for the Year Ended Sept.
30, 1904—Applications for Employment and Help, Positions Se-
cured and the number Remaining Unfilled.*

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
		Number filed.	Number positions secured.	Number unfilled.	Number filed.	Number unfilled.
MALES.						
1	Architect.	1		1		
2	Bakers	3		3		
3	Barnmen.	53	50	3	53	3
4	Bartenders	1	1		1	
5	Blacksmiths	50	50		61	11
6	Bookbinders	2		2		
7	Bookkeepers.	3	3		3	
8	Boys.	213	194	19	268	74
9	Bricklayers				2	2
10	Butchers	3	2	1	1	1
11	Butlers	10	7	3	11	4
12	Cabinet makers	4		4	2	2
13	Cavassers.	22	18	4	36	18
14	Carpenters.	45	45		59	14
15	Carrriage and wagon washers	2	2		2	
16	Cigar makers.	1	1		1	
17	Clerks, not stated.	44	31	13	32	1
18	Coachmen	27	26		26	
19	Collectors.	3	2	1	2	
20	Cooks	38	32	6	46	14
21	Conductors.	1	1		1	
22	Dishwashers.	42	42		46	4
23	Drivers	188	182	6	214	32
24	Electricians	5	2	3	3	1
25	Elevatormen	11	10	1	10	
26	Engineers	5	1	4	3	2
27	Factory hands	477	461	16	584	123
28	Farmers.	95	84	11	116	32
29	Firemen	8	4	4	4	
30	Gardeners	9	7	2	8	1
31	Horseshoers.	1	1		1	
32	Housemen	213	193	20	205	12
33	Janitors	65	54	11	60	6
34	Kiln work	9	9		9	
35	Laborers	1,773	1,737	36	2,532	765
36	Little hands	1	1		1	
37	Machine hands	7	2	5	13	1
38	Machinists.	20	19	1	32	13

North Side Office—Concluded.

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
		Number filed.	Number positions secured.	Number unfilled.	Number filed.	Number unfilled.
39	Masons	1	1	.....	1	.....
40	Metal workers.....	1	.....	1	.....	.....
41	Molders.....	1	.....	1	6	6
42	Nurses	2	2	.....	2	.....
43	Office help.....	9	1	8	1	.....
44	Packers	10	8	2	8	.....
45	Painters.....	79	78	1	89	11
46	Pantrymen	1	.....	1	.....	.....
47	Porters.....	115	102	13	108	6
48	Pressmen	4	4	.....	4	.....
49	Printers	3	.....	3	.....	.....
50	Salesmen	5	3	2	11	8
51	Shoemakers	1	.....	1	.....	.....
52	Solicitors.....	.....	.....	.....	12	12
53	Steam fitters.....	1	.....	1	.....	.....
54	Stenographers.....	5	1	4	1	.....
55	Stockmen.....	17	12	5	15	3
56	Teamsters	166	162	4	202	40
57	Tinsmiths	3	3	.....	5	2
58	Waiters	22	16	6	19	3
59	Watchmen	9	7	2	7	.....
60	Window washers.....	162	161	1	211	50
61	Miscellaneous, not classified.....	90	87	3	101	14
Total males.....		4,162	3,922	240	5,243	1,321
Positions secured, previous applications .....		.....	84	84	.....	84
Yearly total.....		4,162	4,006	156	5,243	1,237
FEMALES.						
1	Addressers.....	1	1	.....	2	1
2	Bookkeepers	5	2	3	2	.....
3	Canvassers.....	3	.....	3	9	9
4	Cashiers.....	8	1	7	1	.....
5	Clerks	14	7	7	11	4
6	Chambermaids	224	207	17	246	39
7	Companions	1	.....	1	.....	.....
8	Cooks.....	356	339	17	437	98
9	Dayworkers.....	356	341	15	355	14
10	Dining room help.....	92	84	8	102	18
11	Dishwashers.....	243	231	12	267	36
12	Factory work.....	85	71	14	325	254
13	General housework.....	1,695	1,634	61	1,944	310
14	Housekeepers.....	73	44	29	57	13
15	Janitresses	1	1	.....	1	.....
16	Kitchen help.....	202	193	9	224	31
17	Laundresses.....	57	50	7	59	9
18	Matrons	1	1	.....	1	.....
19	Nurses.....	96	71	25	90	19
20	Office work.....	16	1	15	2	1
21	Pantry work.....	24	20	4	27	7
22	Scrubwomen	92	84	8	106	22
23	Seamstresses.....	33	30	3	47	17
24	Second work.....	145	134	11	170	36
25	Solicitors.....	.....	.....	.....	12	12
26	Stenographers.....	13	1	12	2	1
27	Teachers, not stated.....	1	.....	1	.....	.....
28	Waitresses.....	102	92	10	148	56
29	Miscellaneous, occupations not stated.....	8	8	.....	18	10
Total.....		3,947	3,648	299	4,665	1,017
Positions secured, previous applications .....		.....	122	122	.....	122
Yearly total.....		3,947	3,770	177	4,665	865

SIXTH ANNUAL REPORT OF THE SOUTH SIDE ILLINOIS FREE EMPLOYMENT OFFICE, 429 WABASH AVENUE, CHICAGO, FOR THE YEAR ENDED SEPT. 30, 1904.

(George W. Geary, Superintendent.)

HON. DAVID ROSS, *Secretary, Bureau of Labor Statistics, Springfield, Illinois.*

SIR—Complying with section six of the act of the General Assembly, creating the Illinois free employment offices, I herewith submit the sixth annual report of the business of the South Side office for the year ended September 30, 1904, together with the expense of maintaining the office for the same period. This report will give in detail the work of this office for the time herein stated.

Respectfully submitted,

GEORGE W. GEARY,
Superintendent.

*Statement of the Expenses of the South Side Office from Oct. 1,
1903, to Sept. 30, 1904,*

Salary of male clerk.....	\$ 800 00	Ice and water.....	45 00
Salary of female clerk.....	720 00	Advertising.....	400 00
Salary of stenographer.....	720 00	Office furniture, repairs and clean-	
Salary of janitor.....	600 00	ing.....	150 00
Rent of office.....	1,044 00	Office supplies.....	105 00
Telephone and toll service.....	155 00	Total.....	\$4,824 00
Telegraph service.....	20 00		
Light and power.....	65 00		

*Annual Report of the Chicago Southside Free Employment Office
to the State Bureau of Labor Statistics, for the Year Ended Sept.
30, 1904—Applications for Employment and Help, Positions Se-
cured, and the Number Remaining Unfilled.*

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
		Number filed.	Number positions secured.	Number unfilled.	Number filed.	Number unfilled.
MALES.						
1	Agents	30	16	14	20	4
2	Artists.	2	1	1	1	
3	Bakers	23	19	4	19	
4	Barbers	6	4	2	4	
5	Barnmen	108	94	14	96	2
6	Bartenders	14	12	2	12	
7	Blacksmiths	24	17	7	19	2
8	Boiler makers	5	5		5	
9	Bookkeepers	28	8	18	8	
10	Bootblacks	46	44	2	49	5
11	Boxmakers	33	30	3	30	
12	Boys, bell	14	11	3	12	1
13	Boys, cash	23	21	2	23	2
14	Boys, delivery	41	38	3	40	2
15	Boys, errand	42	41	1	43	2
16	Boys, office	35	27	8	32	5
17	Butchers	28	22	6	22	
18	Cabinet makers	2	1	1	2	1
19	Calcinners	2	2		2	
20	Carpet layers	4	3	1	3	
21	Carpenters	48	41	7	50	9
22	Carriage and wagon washers	14	13	1	14	1
23	Cashiers.	2	2		2	
24	Clerks, general	55	11	44	11	
25	Clerks, drug	3	3		3	
26	Clerks, dry goods	2	2		2	
27	Clerks, grocery	24	14	10	14	
28	Clerks, office	20	10	10	10	
29	Clerks, shipping	28	21	7	21	
30	Coachmen.	24	18	6	24	1
31	Collectors.	23	2	21	23	
32	Cooks	22	2	20	22	
33	Deck hands					

South Side Office—Continued.

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
		Number filed.	Number positions secured.	Number unfilled.	Number filed.	Number unfilled.
34	Dishwashers.....	289	271	18	271	.....
35	Doormen.....	3	3	.....	3	.....
36	Electricians.....	17	7	10	8	1
37	Elevatormen.....	72	54	18	54	.....
38	Engineers.....	37	20	17	21	1
39	Factory hands.....	195	184	11	184	.....
40	Farm hands.....	418	391	27	501	110
41	Firemen.....	43	28	15	28	.....
42	Florists.....	10	6	4	6	.....
43	Gardeners.....	17	15	2	15	.....
44	Guards, railroad.....	2	2	.....	2	.....
45	Harness makers.....	4	4	.....	4	.....
46	Hostlers.....	11	11	.....	11	.....
47	Housemen.....	481	427	54	429	2
48	Interpreters.....	2	2	.....	2	.....
49	Janitors.....	108	83	25	84	1
50	Kitchenwork.....	137	130	7	131	1
51	Laborers.....	3,313	3,285	28	3,740	455
52	Laborers, railroad.....	236	236	.....	236	.....
53	Laundrymen.....	35	27	8	27	.....
54	Machinists.....	37	23	14	23	.....
55	Millwrights.....	3	3	.....	3	.....
56	Miners.....	17	17	.....	107	90
57	Molders.....	4	4	.....	4	.....
58	Models.....	1	1	.....	1	.....
59	Nurses.....	8	6	2	6	.....
60	Packers.....	41	37	4	37	.....
61	Painters.....	26	18	8	19	1
62	Paper hangers.....	2	1	1	1	.....
63	Pantrymen.....	1	1	.....	1	.....
64	Photographers.....	1	.....	1	.....	.....
65	Pin setters.....	27	27	.....	27	.....
66	Plasterers.....	1	1	.....	1	.....
67	Plumbers.....	10	10	.....	11	1
68	Polishers, metal.....	3	3	.....	3	.....
69	Porters.....	492	435	57	437	2
70	Pressmen.....	2	.....	2	.....	.....
71	Printers.....	2	.....	2	.....	.....
72	Salesmen.....	17	9	8	11	2
73	Shoemakers.....	4	3	1	3	.....
74	Solicitors.....	7	6	1	15	9
75	Steam fitters.....	6	1	5	6	5
76	Stenographers.....	17	14	3	14	.....
77	Stockmen.....	182	174	8	206	32
78	Tailors.....	3	2	1	2	.....
79	Teamsters.....	105	91	14	93	12
80	Telegraphers.....	1	.....	1	.....	.....
81	Tinsmiths.....	10	8	2	10	2
82	Upholsterers.....	6	6	.....	6	.....
83	Waiters.....	291	257	34	258	1
84	Watchmakers.....	1	.....	1	.....	.....
85	Watchmen.....	51	40	11	40	.....
86	Window washers.....	149	144	5	147	3
87	Wood workers.....	2	2	.....	2	.....
88	Yardmen.....	86	82	4	82	.....
Total males.....		8,031	7,380	651	8,144	764

South Side Office—Concluded.

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
		Number filed	Number posi- tions secured	Number unfilled.	Number filed.	Number unfilled.
FEMALES.						
1	Agents.....	1	.....	1	5	5
2	Bookkeepers.....	12	2	10	3	1
3	Cash girls.....	9	2	7	2	.....
4	Cashiers.....	10	7	3	7	.....
5	Chambermaids.....	406	404	2	437	33
6	Companions.....	4	1	3	1	.....
7	Cooks.....	465	458	7	551	93
8	Dayworkers.....	184	184	.....	188	4
9	Dishwashers.....	403	403	.....	422	19
10	Factory work.....	248	237	11	347	110
11	Housekeepers.....	101	75	26	94	19
12	Housework.....	1,524	1,486	38	1,924	438
13	Janitresses.....	1	.....	1	.....	.....
14	Kitchen help.....	305	304	1	319	15
15	Lady's maid.....	1	.....	1	.....	.....
16	Laudresses.....	140	137	3	156	19
17	Nurses.....	81	67	14	79	12
18	Office work.....	88	59	29	59	.....
19	Pantry work.....	47	47	.....	48	1
20	Saleswomen.....	2	2	.....	6	4
21	Scrubwomen.....	323	323	.....	344	21
22	Seamstresses.....	46	39	7	43	4
23	Second work.....	90	89	1	104	15
24	Solicitors.....	2	1	1	10	9
25	Stenographers.....	49	11	38	11	.....
26	Waitresses.....	422	410	12	482	72
Total, females.....		4,964	4,748	216	5,642	894

SIXTH ANNUAL REPORT OF THE WEST SIDE ILLINOIS FREE EMPLOYMENT OFFICE, CORNER CANAL AND RANDOLPH STREETS, CHICAGO, FOR THE YEAR ENDED SEPT. 30, 1904.

(S. P. Revere, Superintendent.)

HON. DAVID ROSS, *Secretary, Bureau of Labor Statistics, Springfield, Illinois.*

SIR—In compliance with section six of the act of the General Assembly of the State creating the Illinois Free Employment offices, I herewith submit the sixth annual report of the business transacted in this office for the year ended September 30, 1904, together with the expense account for the same period.

The report shows a decrease in applications for help from last year, caused in a great measure from labor troubles and unsettled conditions in the industrial world.

The coming year no doubt will see a better condition of affairs all around and we look forward to a very successful year for the free employment offices.

The following report will give in detail the work of this office for the time herein stated.

Respectfully submitted,

S. P. REVERE,
Superintendent.

Statement of the Expenses of the West Side Free Employment Office from Oct. 1, 1903, to Sept. 30, 1904.

Rent of office.....	\$ 590 00	Repainting signs.....	\$ 43 00
Telephone service.....	127 75	Advertising.....	419 90
Gas.....	33 54	Postage.....	90 00
Ice.....	28 70	Miscellaneous.....	138 90
Toilet supplies.....	18 00		
Trips to Springfield.....	65 70	Total.....	\$1,721 43
Cleaning, painting and repairing.....	165 94		

Annual Report of the Chicago West Side Free Employment Office to the State Bureau of Labor Statistics, for the year ended Sept. 30, 1904—Applications for Employment and Help, Positions Secured, and the number remaining unfilled.

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
		Number filed.	Number positions secured.	Number unfilled.	Number filed.	Number unfilled.
	MALES.					
1	Agents.....	2	.....	2	.....	.....
2	Any light work.....	31	.....	31	.....	.....
3	Apprentices.....	34	1	33	1	.....
4	Artists.....	2	.....	2	.....	.....
5	Bakers.....	18	4	14	4	.....
6	Barbers.....	2	1	1	1	.....
7	Barnmen.....	32	20	12	20	.....
8	Bartenders.....	23	1	22	3	2
9	Bench hands.....	23	.....	23	.....	.....
10	Blacksmiths.....	20	6	14	8	2
11	Blacksmith helpers.....	15	3	12	3	.....
12	Boiler makers.....	1	.....	1	.....	.....
13	Bookbinders.....	2	.....	2	.....	.....
14	Bookkeepers.....	27	.....	27	.....	.....
15	Boxmakers.....	5	1	4	1	.....
16	Boys.....	139	65	74	70	5
17	Boys, bell.....	1	.....	1	.....	.....
18	Boys, errand.....	1	.....	1	1	1
19	Boys, office.....	11	4	7	4	.....
20	Brakemen.....	4	.....	4	.....	.....
21	Brass finishers.....	5	.....	5	.....	.....
22	Bricklayers.....	5	2	3	2	.....
23	Bridge builders.....	1	.....	1	.....	.....
24	Butchers.....	6	2	4	2	.....
25	Butlers.....	1	.....	1	.....	.....
26	Cabinet makers.....	16	3	13	3	.....
27	Canvassers.....	3	.....	3	2	2
28	Carpenters.....	61	9	52	9	.....
29	Carriage and wagon washers.....	5	4	1	5	1
30	Cashiers.....	1	.....	1	.....	.....
31	Checkers.....	5	3	2	3	.....
32	Cigar makers.....	1	.....	1	.....	.....
33	Circular distributors.....	1	.....	1	.....	.....

West Side Office—Continued.

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
		Number filed.	Number positions secured.	Number unfilled.	Number filed.	Number unfilled.
34	Cleaners, harness	2	.....	2	.....	.....
35	Clerks, bill	2	.....	2	.....	.....
36	Clerks grocery	3	.....	3	.....	.....
37	Clerks, hotel	3	.....	3	.....	.....
38	Clerks, shipping	10	.....	10	.....	.....
39	Clerks, not stated	242	9	233	9	.....
40	Coachmen	13	4	9	4	.....
41	Coal heavers	1	.....	1	.....	.....
42	Collectors	19	2	17	2	.....
43	Compositors	2	.....	2	.....	.....
44	Cooks	52	16	36	19	3
45	Conductors	1	.....	1	.....	.....
46	Coremakers	7	.....	7	.....	.....
47	Dishwashers	25	12	13	12	.....
48	Draughtsmen	5	.....	5	.....	.....
49	Drill pressmen	50	.....	50	.....	.....
50	Drivers	138	47	91	49	2
51	Electricians	22	.....	22	.....	.....
52	Elevatormen	75	3	72	4	1
53	Engineers	50	3	47	3	.....
54	Factory hands	779	357	422	357	.....
55	Farmers	4	.....	4	.....	.....
56	Farm hands	344	224	120	239	15
57	Firemen	94	11	83	11	.....
58	Foremen	3	.....	3	.....	.....
59	Foundrymen	3	.....	3	.....	.....
60	Furnace tenders	1	.....	1	.....	.....
61	Gardeners	4	.....	4	.....	.....
62	Glassworkers	1	.....	1	.....	.....
63	Harnessmakers	2	.....	2	.....	.....
64	Horseshoers	2	1	1	1	.....
65	Hostlers	46	30	16	30	.....
66	Housemen	95	36	59	38	2
67	Ironworkers	22	6	16	6	.....
68	Janitors	73	14	59	15	1
69	Kitchenwork	11	4	7	4	.....
70	Laborers	2,470	2,303	167	2,307	4
71	Lathe hands	13	.....	13	.....	.....
72	Lathers	1	.....	1	.....	.....
73	Laundrymen	8	.....	8	2	2
74	Linemen, electrical	2	.....	2	.....	.....
75	Linemen, not stated	1	.....	1	.....	.....
76	Locksmiths	5	.....	5	.....	.....
77	Machine hands	124	4	120	6	2
78	Machinists	160	25	135	26	1
79	Metal workers	9	.....	9	.....	.....
80	Millers	1	.....	1	.....	.....
81	Millwrights	7	1	6	1	.....
82	Molders	5	.....	5	.....	.....
83	Nurses	2	.....	2	.....	.....
84	Office help	1	.....	1	.....	.....
85	Oilers	7	.....	7	.....	.....
86	Packers	57	2	55	2	.....
87	Painters	32	6	26	7	1
88	Paper hangers	4	1	3	1	.....
89	Pantrymen	1	.....	1	.....	.....
90	Pattern makers	6	.....	6	.....	.....
91	Photographers	1	.....	1	.....	.....
92	Plasterers	4	2	2	2	.....
93	Plumbers	4	1	3	1	.....
94	Polishers, metal	1	.....	1	.....	.....
95	Polishers, not stated	3	.....	3	.....	.....
96	Porters	179	86	93	89	3
97	Pressers	2	.....	2	.....	.....
98	Pressmen	2	.....	2	.....	.....

West Side Office—Continued.

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.			APPLICATION FOR HELP	
		Number filed.	Number positions secured.	Number unfiled.	Number filed.	Number unfiled.
99	Printers	11	.....	11	.....	.....
100	Punch press hands	34	.....	34	.....	.....
101	Railroadmen	5	.....	4	.....	.....
102	Sailors	1	.....	1	.....	.....
103	Salesmen	26	.....	26	.....	.....
104	Sawyers	5	.....	5	.....	.....
105	Shoemakers	4	.....	4	.....	.....
106	Silvermen	1	.....	1	.....	.....
107	Solicitors	17	14	3	23	9
108	Steamfitters	6	.....	6	.....	.....
109	Stenographers	9	.....	9	.....	.....
110	Stockkeepers	67	50	17	52	2
111	Stonecutters	2	.....	2	.....	.....
112	Stovemmen	1	.....	1	.....	.....
113	Tailors	5	.....	5	.....	.....
114	Teachers, not stated	1	.....	1	.....	.....
115	Teamsters	129	48	81	48	.....
116	Timekeepers	2	.....	2	.....	.....
117	Tinsmiths	13	2	11	3	1
118	Toolmakers	6	.....	6	.....	.....
119	Truckmen	13	.....	13	.....	.....
120	Upholsterers	1	.....	1	1	1
121	Vise hands	4	.....	4	.....	.....
122	Waiters	28	7	21	7	.....
123	Watchmen	82	6	76	6	.....
124	Wholesalemen	22	1	21	1	.....
125	Window washers	122	120	2	120	.....
126	Wood finishers	7	.....	7	.....	.....
127	Woodworkers	10	.....	10	.....	.....
128	Yardmen	8	4	4	4	.....
129	Miscellaneous, not classified	512	321	191	332	11
Total males		6,976	3,912	3,064	3,986	74
Positions secured, previous applica- tions .....		.....	8	8	.....	8
Total for year		6,976	3,920	3,056	3,986	66
FEMALES.						
1	Addressers	7	.....	7	.....	.....
2	Apprentices	1	.....	1	.....	.....
3	Attendants	1	1	.....	2	1
4	Bookkeepers	8	.....	8	.....	.....
5	Bottle labelers	7	2	5	2	.....
6	Canvassers	3	3	.....	6	3
7	Cashiers	13	.....	13	.....	.....
8	Clerks	8	1	7	3	2
9	Chambermaids	223	161	62	167	6
10	Companions	4	2	2	2	.....
11	Cooks	212	115	97	146	31
12	Copyists	1	.....	1	.....	.....
13	Daw workers	183	28	155	28	.....
14	Demonstrators	2	.....	2	5	5
15	Diningroom help	48	46	2	55	9
16	Dishwashers	133	103	30	110	7
17	Domestics	499	478	21	852	374
18	Factory work	255	182	73	273	91
19	Folders, circulars	12	7	5	10	3
20	Governesses	2	.....	2	.....	.....
21	Housekeepers	108	71	37	117	46
22	Janitresses	9	1	8	1	.....
23	Kitchen help	148	106	42	114	8
24	Lady's maid	1	.....	1	.....	.....
25	Laundresses	112	108	15	109	6
26	Mail order ha .....	.....	.....	2	.....	.....
27	Nurses ...	.....	29	22	36	7
28	Office woi	.....	5	32	5	.....

West Side Office—Concluded.

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
		Number filed	Number pos- itions secured.	Number unfilled.	Number filed.	Number unfilled.
29	Pantry work.....	27	13	14	16	3
30	Proof readers.....	1	.....	1	.....	.....
31	Reception service.....	2	.....	2	.....	.....
32	Scrubwomen	220	192	28	212	20
33	Seamstresses.....	17	16	1	63	47
34	Second work.....	33	16	17	21	5
35	Solicitors.....	8	8	.....	18	10
36	Stenographers.....	15	4	11	6	2
37	Typewriters	1	.....	1	.....	.....
38	Waitresses	136	106	30	132	26
39	Wrappers.....	9	8	1	8	.....
40	Miscellaneous, occupation not stated...	28	23	5	25	2
Total.....		2,593	1,830	763	2,544	714
Positions secured, previous applica- tions.....		.....	1	1	.....	1
Total for year.....		2,593	1,831	762	2,544	713

FOURTH ANNUAL REPORT OF THE PEORIA ILLINOIS FREE EMPLOYMENT OFFICE, FOR THE YEAR ENDED SEPT. 30, 1904.

(E. E. Walker, Superintendent.)

HON. DAVID ROSS, *Secretary, Bureau of Labor Statistics, Springfield, Illinois.*

SIR—In compliance with section six of an act creating Free Employment offices in this State, I herewith submit the fourth annual report of this office for the year ended September 30, 1904, together with an itemized statement of the expenses for maintaining this office for the year.

The work accomplished by this office during the past year compares favorably with that of previous years and demonstrates that free employment offices are of much benefit to the people of this State.

The following tables give in detail the work of this office for the time herein stated.

Respectfully submitted,

E. E. WALKER,
Superintendent.

Statement of the Expenses of the Peoria, Illinois Free Employment Office at Peoria for the Year ending Sept. 30, 1904.

Salary of stenographer.....	\$720 00	Telegraph and messenger service...	7 26
Advertising.....	229 80	Towel supply, etc.....	13 20
Rent	780 00	Postage and express	65 15
Telephone and toll service.....	108 85	Cleaning offices.....	7 30
Extra office work.....	110 00	Stationery	12 05
Furniture.....	49 87	City directory.....	5 00
Janitor service.....	22 50	Miscellaneous.....	236 73
Ice	10 50		
Electric light service.....	21 15	Total.....	\$2,399 36

Annual Report of the Peoria Free Employment Office to the State Bureau of Labor Statistics, for the Year ended Sept. 30, 1904—Applications for Employment and help, Positions secured and the Number Remaining unfilled.

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
		Number filed.	Number posi- tions secured.	Number unfilled.	Number filed	Number unfilled.
MALES.						
1	Apprentices	13	11	2	11	.....
2	Bakers	10	5	5	5	.....
3	Harnmen.....	109	105	4	106	1
4	Bartenders.....	1	1	.....	1	.....
5	Blacksmiths	19	15	4	15	.....
6	Boiler makers.....	1	.....	1	.....	.....
7	Bookkeepers	10	1	9	1	.....
8	Boys	6	5	1	5	.....
9	Boys, bell	22	22	.....	26	4
10	Boys, elevator.....	6	5	1	5	.....
11	Boys, delivery.....	92	84	8	87	3
12	Boys, errand.....	33	30	3	33	3
13	Boys, office.....	9	9	.....	9	.....
14	Boys, factory.....	28	26	2	31	5
15	Brakemen.....	6	6	.....	6	.....
16	Butchers	1	1	.....	1	.....
17	Candy makers.....	2	.....	2	.....	.....
18	Canvassers.....	10	10	.....	10	.....
19	Carpenters.....	39	25	14	28	3
20	Clerks.....	3	1	2	1	.....
21	Clerks, grocery.....	4	3	1	3	.....
22	Clerks, hotel.....	1	.....	1	.....	.....
23	Clerks, shipping.....	3	2	1	2	.....
24	Clerks, order.....	2	2	.....	2	.....
25	Coachmen.....	12	5	7	5	.....
26	Coal miners.....	5	4	1	4	.....
27	Coal weighers.....	2	2	.....	2	.....
28	Collectors.....	16	5	11	11	.....
29	Cooks.....	93	69	24	69	.....
30	Dairymen.....	14	13	1	13	.....

Peoria Office—Continued.

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
		Number filed.	Number positions secured.	Number unfilled.	Number filed.	Number unfilled.
31	Dishwashers.....	59	59	.....	60	1
32	Distributors	2	2	.....	2	.....
33	Drivers.....	22	17	5	17	.....
34	Electricians.....	3	3	.....	3	.....
35	Engineers	17	9	8	10	1
36	Factory hands.....	307	269	38	282	13
37	Farm hands.....	161	145	16	148	3
38	Firemen	26	10	16	10	.....
39	Florists.....	1	.....	1	.....	.....
40	Gardeners.....	14	13	1	18	5
41	Harvest hands.....	40	40	.....	53	13
42	Hostlers	4	4	.....	4	.....
43	Housemen.....	36	31	5	32	1
44	Ice cutters	17	17	.....	17	.....
45	Iron workers.....	1	1	.....	1	.....
46	Janitors	47	29	18	29	.....
47	Kitchen work.....	11	11	.....	11	.....
48	Laborers	2,555	2,396	159	2,480	84
49	Laborers, railroad.....	115	115	.....	121	6
50	Lathe hands.....	1	.....	1	.....	.....
51	Laundrymen.....	1	1	.....	1	.....
52	Linemen, not stated	3	3	.....	3	.....
53	Machinists	23	9	14	9	.....
54	Malsters	1	1	.....	2	1
55	Metal workers	1	1	.....	1	.....
56	Molders.....	8	8	.....	10	2
57	Nurses	3	2	1	2	.....
58	Office help.....	21	6	15	6	.....
59	Packers.....	2	2	.....	2	.....
60	Painters.....	32	21	11	21	.....
61	Paper hangers.....	1	1	.....	1	.....
62	Pan washers	3	3	.....	3	.....
63	Pattern makers.....	2	2	.....	2	.....
64	Pharmacists.....	1	.....	1	.....	.....
65	Pipe fitters.....	1	.....	1	.....	.....
66	Plasterers	1	.....	1	.....	.....
67	Porters	91	76	15	76	.....
68	Pressers.....	1	1	.....	1	.....
69	Roofers	2	2	.....	2	.....
70	Salesmen.....	41	15	26	15	.....
71	Shovelers	34	34	.....	34	.....
72	Solicitors.....	9	9	.....	9	.....
73	Stenographers.....	1	.....	1	.....	.....
74	Stovemmen.....	2	2	.....	2	.....
75	Teamsters.....	185	168	17	170	2
76	Tinsmiths.....	1	.....	1	.....	.....
77	Upholsterers.....	1	.....	1	.....	.....
78	Waiters.....	26	17	9	17	.....
79	Watchmen.....	8	5	3	5	.....
80	Woodworkers.....	4	.....	4	.....	.....
81	Yardmen.....	73	72	1	74	2
Total males.....		4,594	4,099	495	4,252	153
FEMALES.						
1	Addressers.....	6	3	3	3	.....
2	Attendants.....	3	3	.....	3	.....
3	Bookkeepers	14	1	13	1	.....
4	Bottle labelers.....	1	1	.....	1	.....
5	Canvassers.....	12	12	.....	12	.....
6	Cashiers.....	4	2	2	2	.....
7	Clerks.....	16	5	11	5	.....
8	Collectors	1	.....	1	.....	.....
9	Chambermaids	111	104	7	104	.....
10	Companions.....	4	3	1	3	.....
11	Cooks.....	30	28	2	28	.....
12	Dayworkers.....	136	94	42	94	15

Peoria Office—Concluded.

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
		Number filed.	Number positions secured.	Number unfilled.	Number filed.	Number unfilled.
13	Demonstrators.....	3	1	2	1	.....
14	Dining room help.....	178	174	4	175	1
15	Dishwashers.....	156	157	5	152	1
16	Distributors.....	2	2	.....	2	.....
17	Factory work.....	156	142	14	132	.....
18	General housework.....	808	800	8	1,041	241
19	Hotel help.....	9	4	5	4	.....
20	Housekeepers.....	95	73	22	73	.....
21	Janitresses.....	9	8	1	8	.....
22	Kitchen help.....	100	99	1	99	.....
23	Lady's maid.....	1	1	.....	1	.....
24	Laundresses.....	11	5	6	5	.....
25	Milliners.....	1	.....	1	.....	.....
26	Nurses.....	23	13	10	15	2
27	Office work.....	76	22	54	22	.....
28	Pantry work.....	23	22	1	22	.....
29	Nurse girls.....	31	28	3	28	.....
30	Proofreaders.....	1	.....	1	.....	.....
31	Silver girls.....	2	2	.....	2	.....
32	Scrubwomen.....	21	21	.....	21	.....
33	Seamstresses.....	19	15	4	15	.....
34	Second work.....	47	40	7	43	3
35	Solicitors.....	4	3	1	3	.....
36	Stenographers.....	30	7	23	7	.....
37	Vegetable cleaners.....	6	6	.....	7	1
38	Waitresses.....	13	13	.....	13	.....
39	Washerwomen.....	3	2	1	2	.....
Total females.....		2,226	1,970	256	2,234	264

JUN 12 1940

